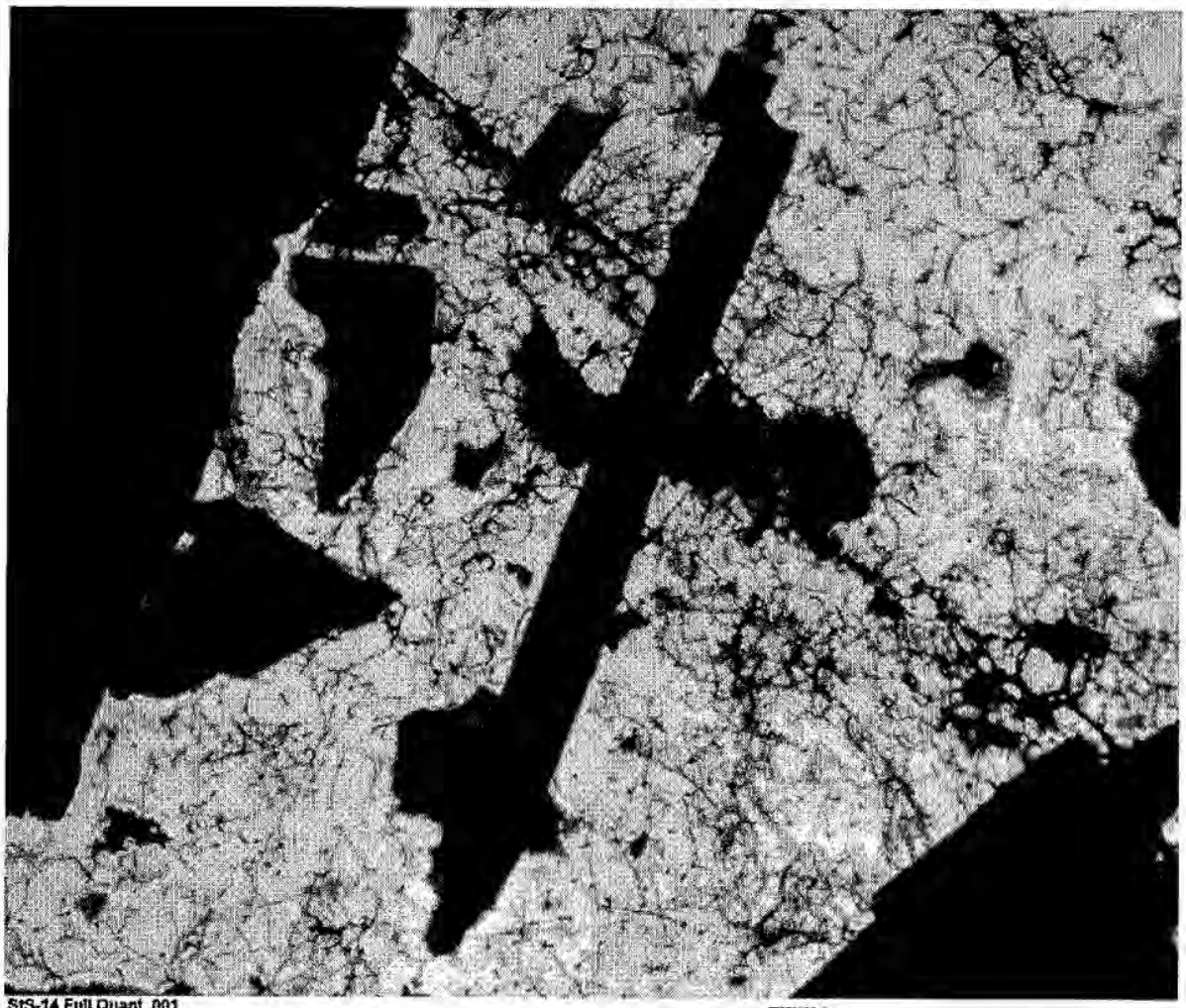
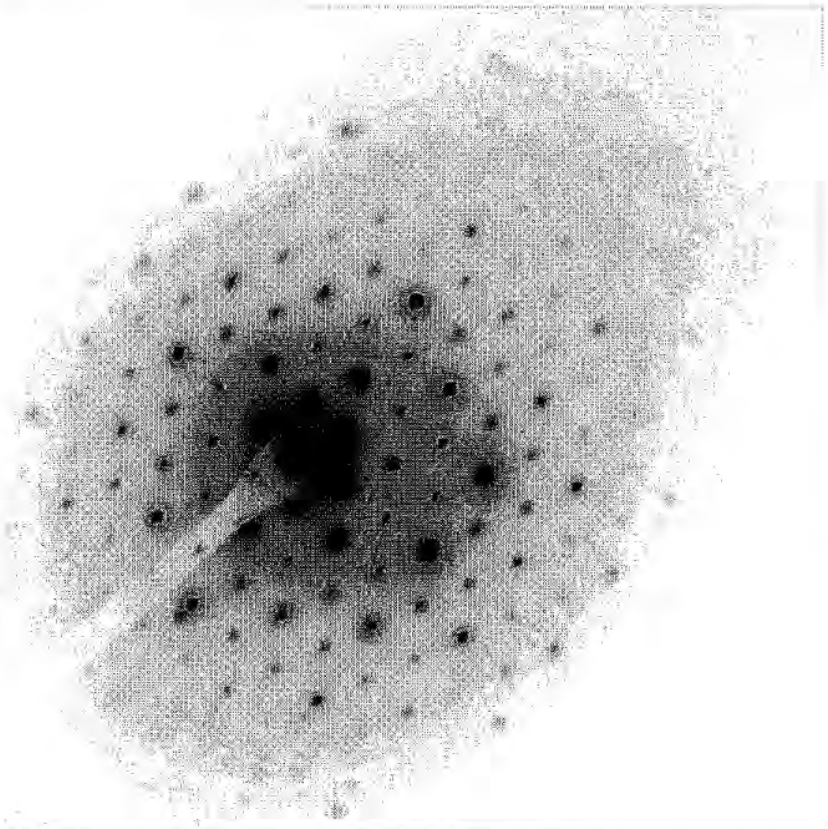
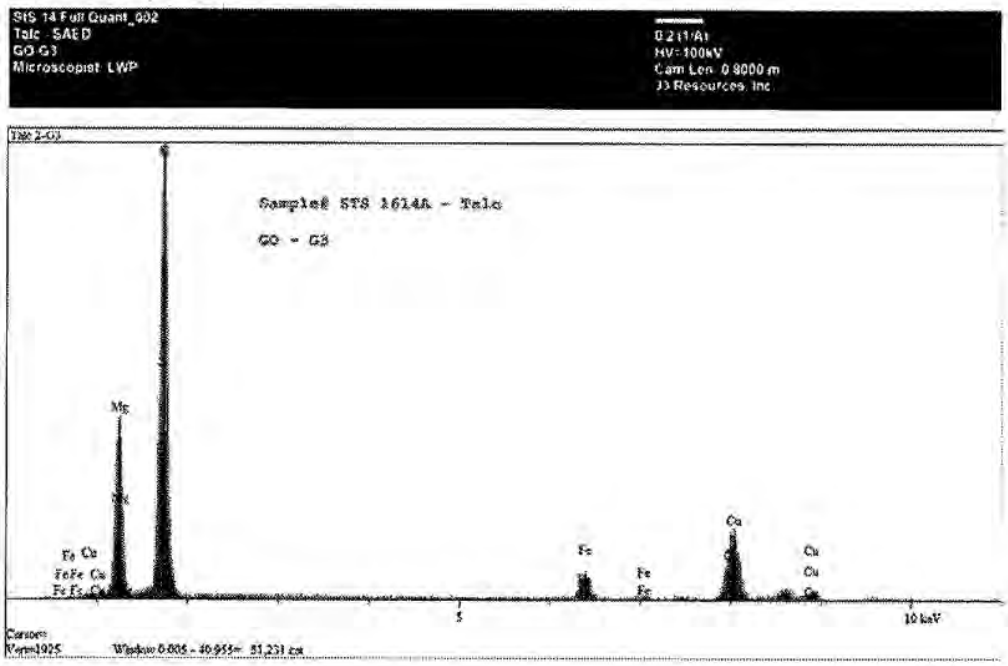
Exhibit 67-L

Sample 20180061-21D
Talc (GO G3) - Morphology



Sample 20180061-21D
Talc (GO G3) - Diffraction Pattern and EDS

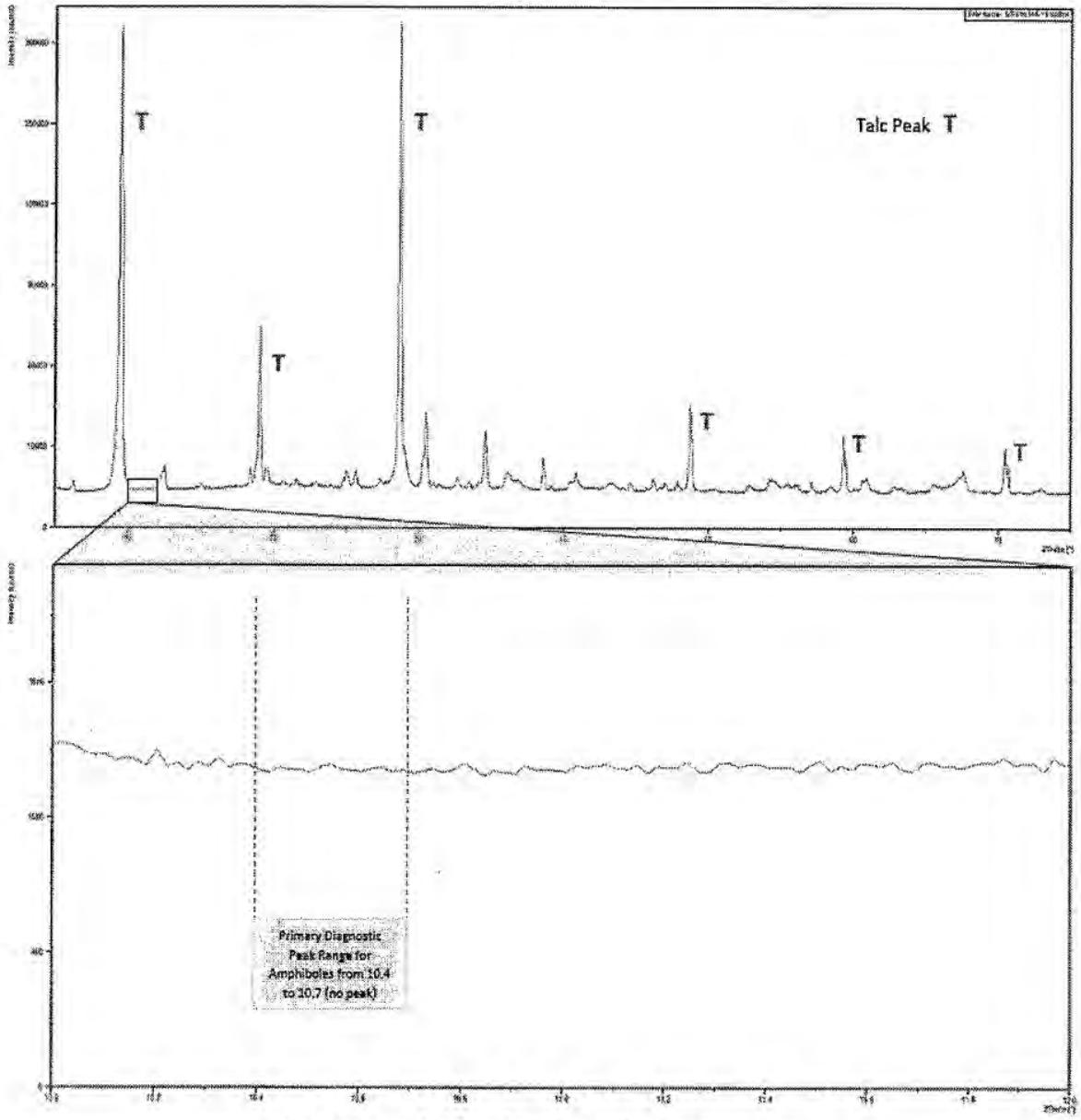




Determination of Asbestos in Talc by XRD

ISO 22262-3:2016

Sample 20180061-21D



No Amphibole Peak Present

EXHIBIT E[1]

IN RE JOHNSON & JOHNSON TALCUM POWDER PRODUCTS
MARKETING, SALES PRACTICES, AND PRODUCTS LIABILITY LITIGATION
MDL NO. 16-2738 (FLW) (LHG)

JOINT CATALOGUE

LABORATORY CONTROL NO.	SAMPLE IDENTIFICATION NO.	LABEL ON ORIGINAL CONTAINER	DATE ON ORIGINAL CONTAINER	QUANTITY ON LABEL OF ORIGINAL CONTAINER	QUANTITY IN ORIGINAL CONTAINER OR RECEPTACLE BEFORE DIVISION	QUANTITY IN ORIGINAL CONTAINER/RECEPTACLE OR NEW RECEPTACLE AFTER DIVISION
2018 0061 - 21	STS055	REGULAR SCENT Shower to Shower DEODORANT BODY POWDER with Baking Soda and Cornstarch	1983	8 oz.	AMK ~~4.3 oz.~~	
2018 0061 - 21 C					~4.3 oz.	~3.80 oz.
2018 0061 - 21 D						~0.5 oz.

Observer for plaintiffs hereby acknowledges receipt of 2018 0061 - 21 D, ~0.5 oz. (weight) of 2018 0061 - 21C.

Observer for Plaintiffs — 5/17/18 Date

Observer for defendants hereby acknowledges witnessing the same.

Observer for Defendants — 5/17/18 Date

Laboratory technician hereby acknowledges that all remaining material from 2018 0061 - 21C was returned to its original container or receptacle.

Laboratory Technician — 5/17/18 Date

[1] This form is an Exhibit to the Agreed Order and Stipulation Regarding the Johnson & Johnson Defendants' Production of Talcum Powder Products and Talc Samples ("Agreed Order"). Terms used herein have the same meaning as defined in the Agreed Order. The instant form has been adapted for use in connection with the initial division of Samples STS009, STS014, STS015, STS027, STS029, STS030, STS044, STS049 and 2014.001.0397, and further division of Samples STS001, STS002, STS016, STS036, STS055 and STS065.


20180061-21D
Drinker
STS SAMPLE 01 DONE - STS 055 D
Jack N. Frost, Jr.

Section 11

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M68503 - 001ISO **Analyst** Paul Hess **Date** 11/2/2018

ClientName Dept 14 Environmental **ClientSpl** 2018-0051-34A

Location

Type_Mat Johnson's Baby Powder

Gross Visual Off-white powder **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.625/1.610	1.635/1.621	
Sign^	positive	positive	
Extinction	oblique	oblique	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Tremolite/Actinolite	Actinolite/Tremolite	

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	
OTHER FIBROUS COMPONENTS	
Talc -B/Y DS in 1.55	***
NON FIBROUS COMPONENTS	
Opaques	X
Talc	X
Mineral grains	X

Binder Description

Comments Tremolite/Actinolite asbestos observed. *** Trace amount fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M68503 - 001BL1 **Analyst** Paul Hess **Date** 11/2/2018

ClientName Dept 14 Environmental **ClientSpl** 2018-0051-34A

Location

Type_Mat Johnson's Baby Powder

Gross Visual White debris on slide **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.625/1.613		
Sign^	positive		
Extinction	oblique		
Birefringence	medium		
Melt	no		
Fiber Name	Tremolite/Actinolite		

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	

OTHER FIBROUS COMPONENTS

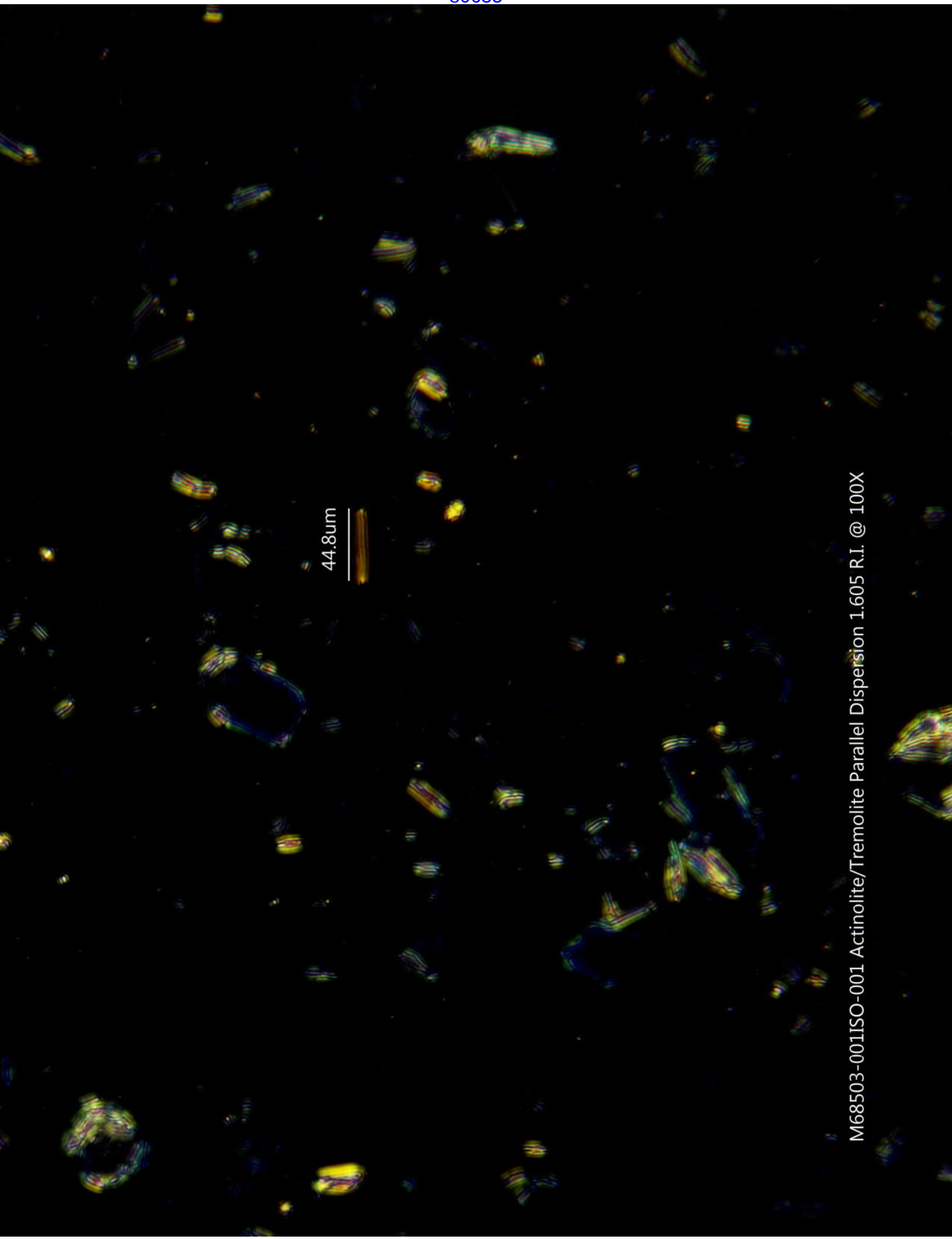
NON FIBROUS COMPONENTS

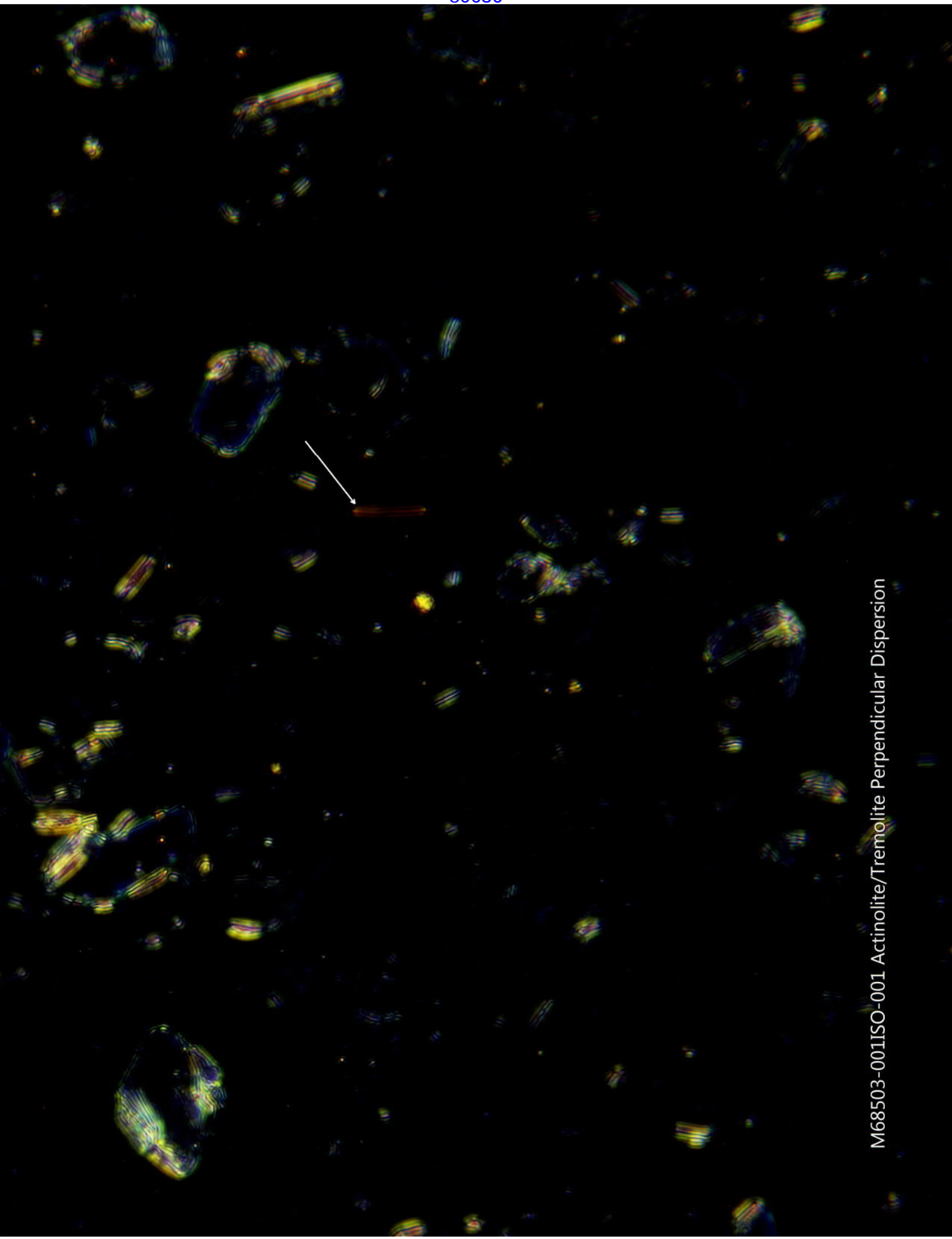
Opaques	X
Talc	X
Mineral grains	X

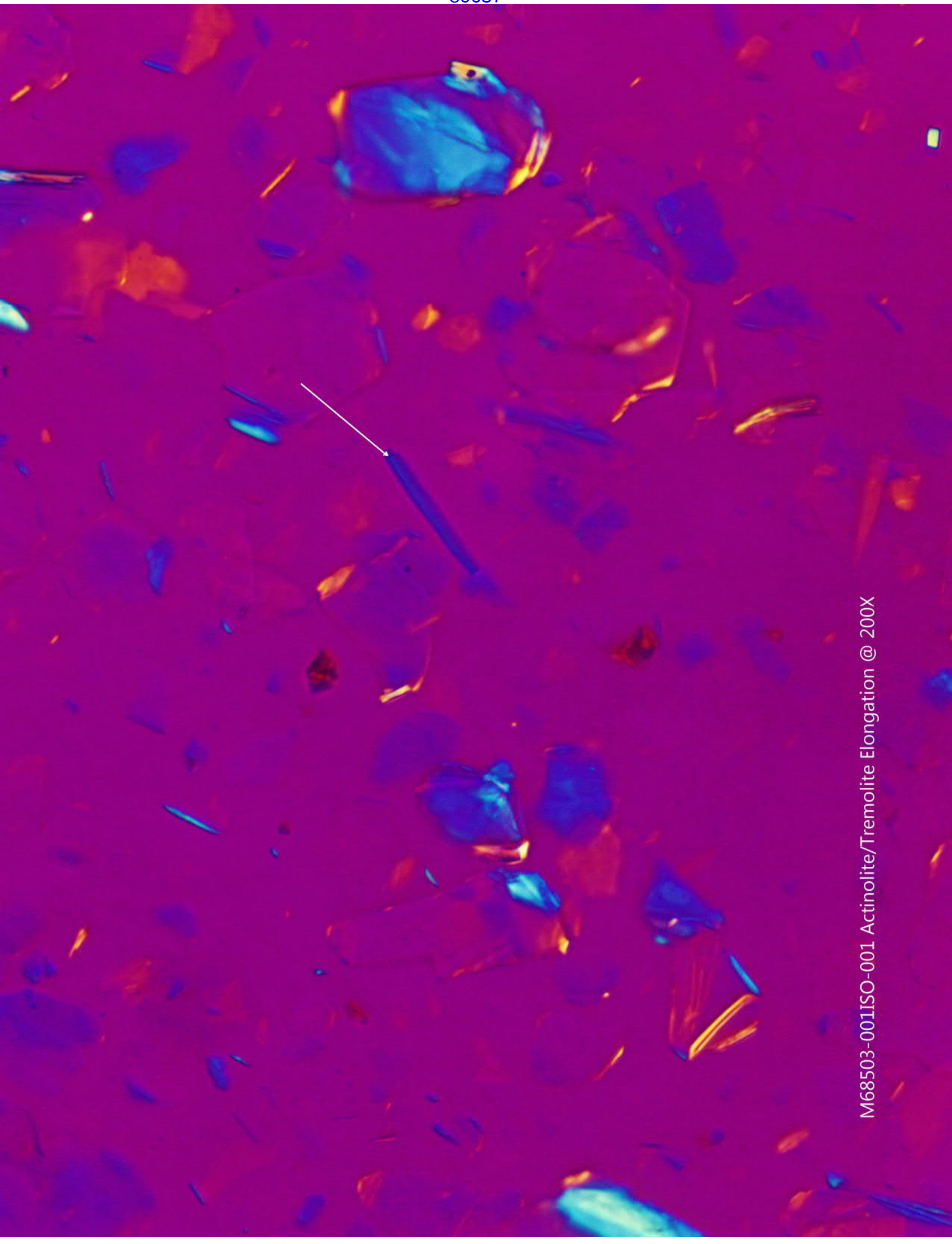
Binder Description

Comments Tremolite/Actinolite asbestos observed. X = Materials detected.

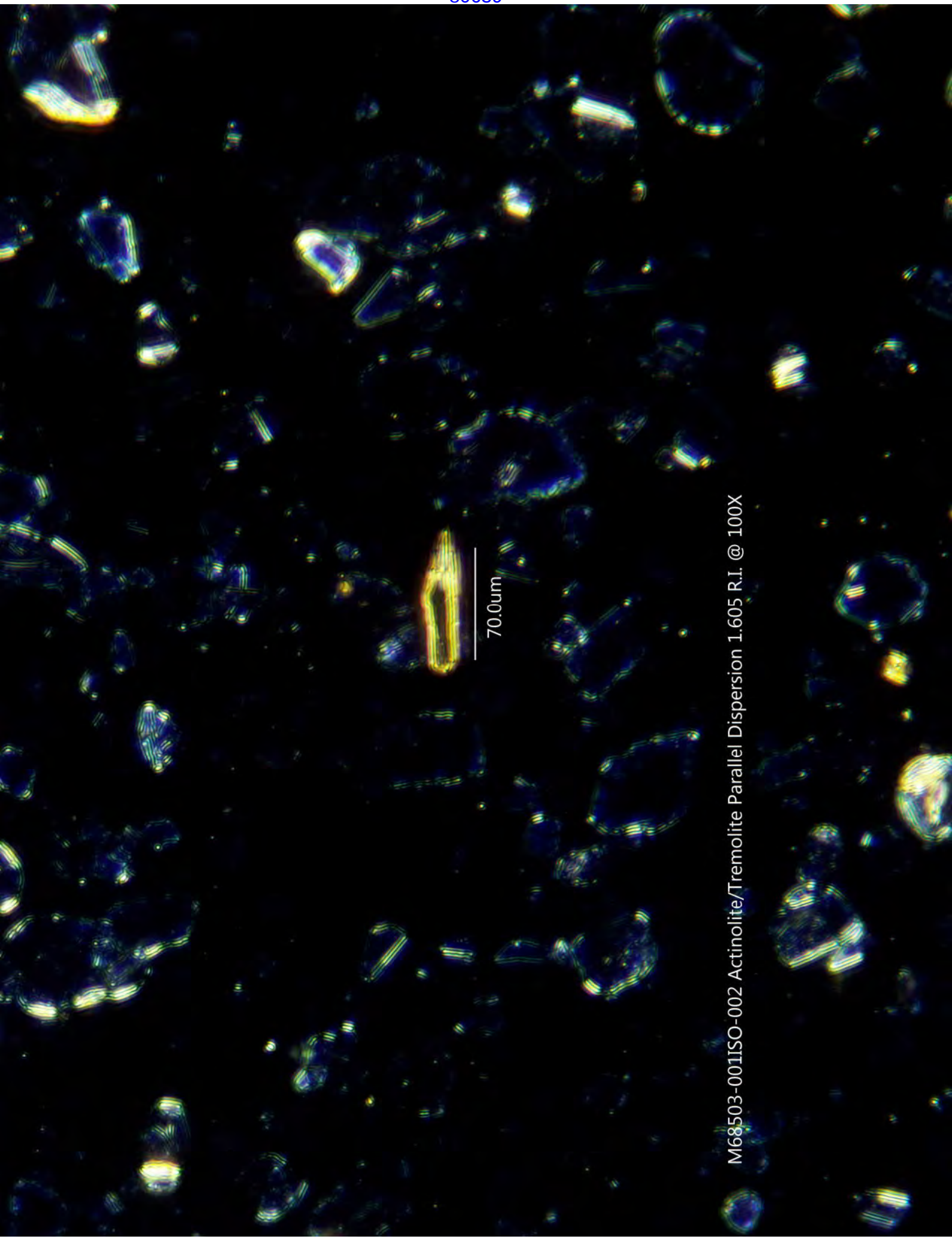
The method detection limit is 1% unless otherwise stated.

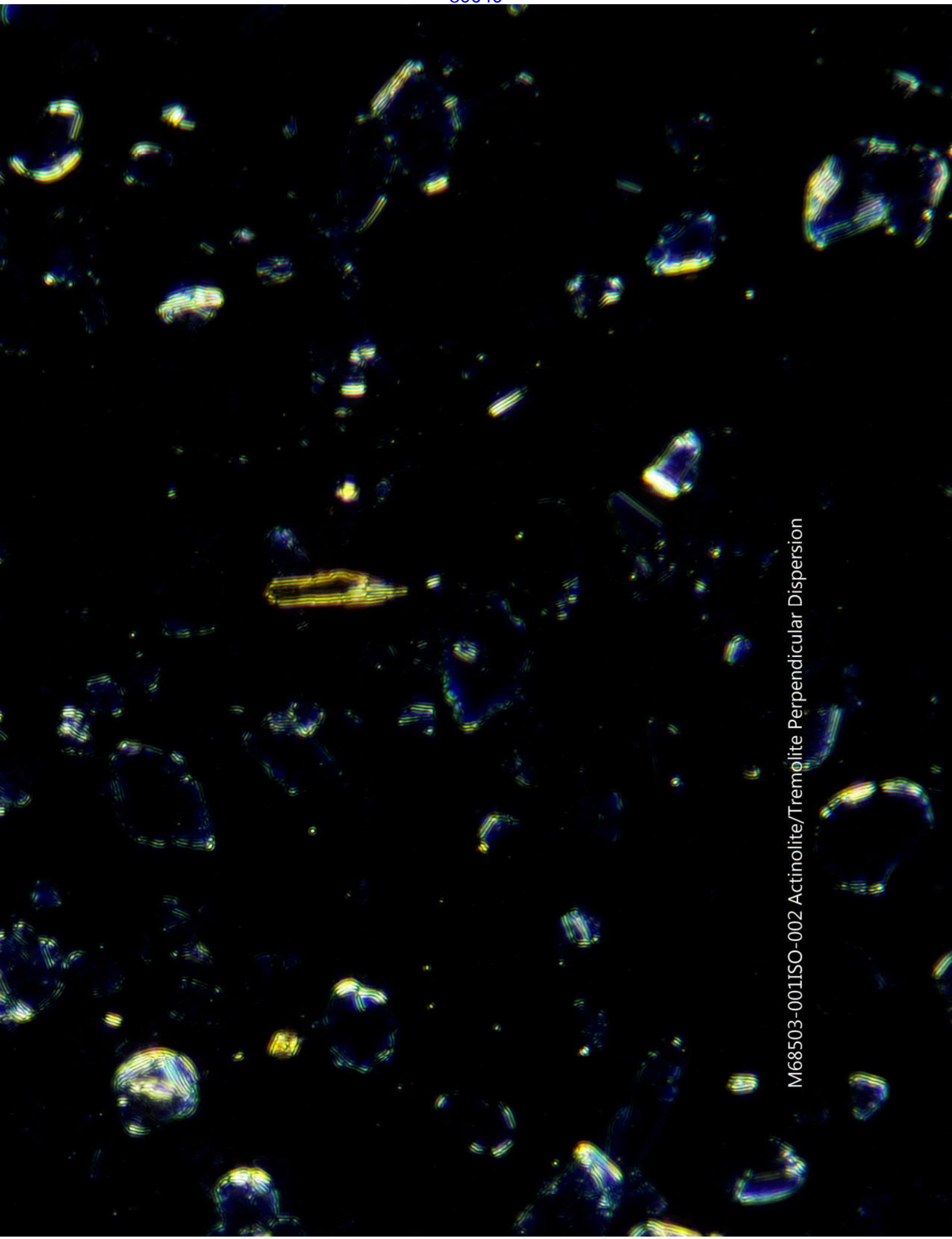

44.8um
M68503-001ISO-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X


M68503-001ISO-001 Actinolite/Tremolite Perpendicular Dispersion

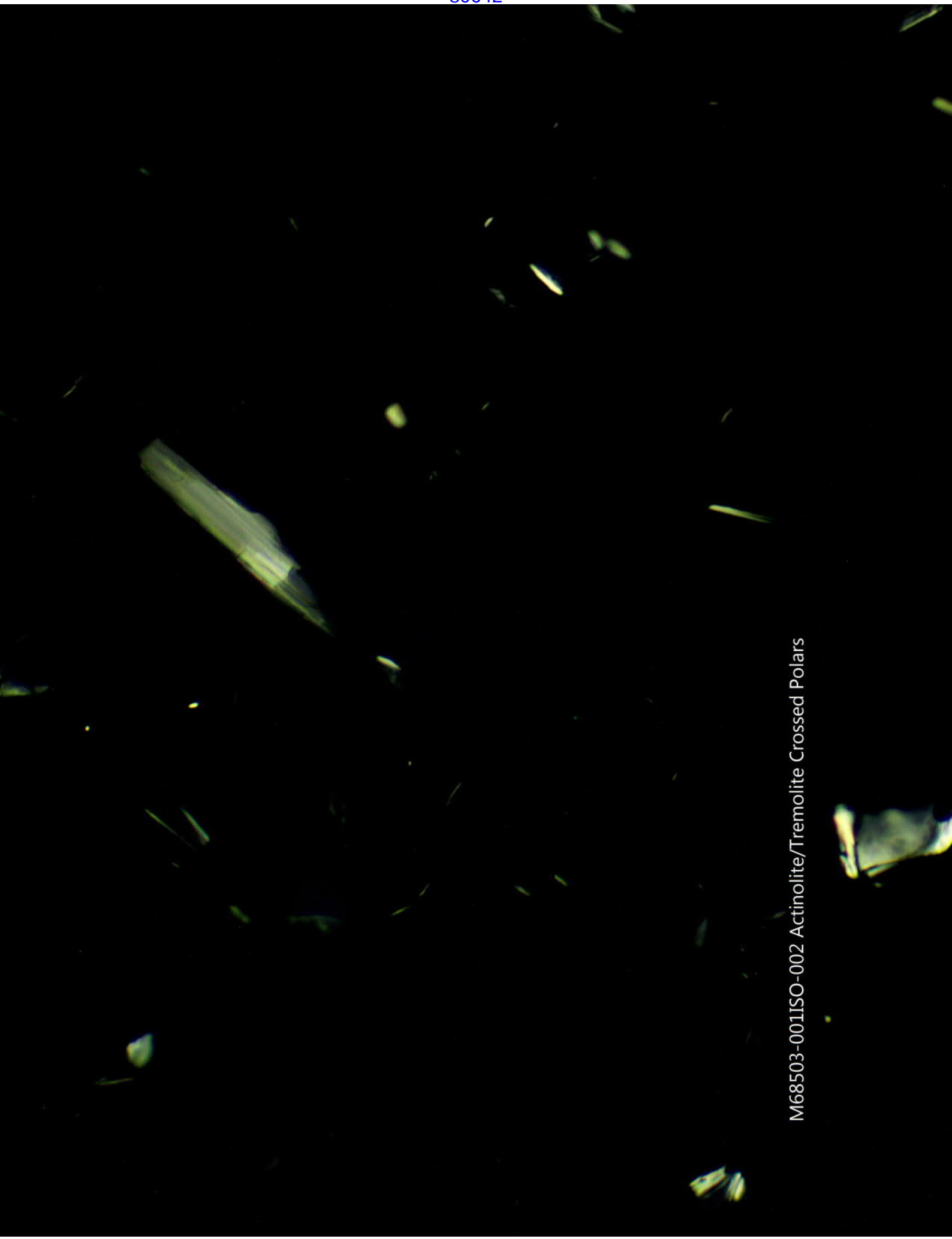

M68503-001ISO-001 Actinolite/Tremolite Elongation @ 200X

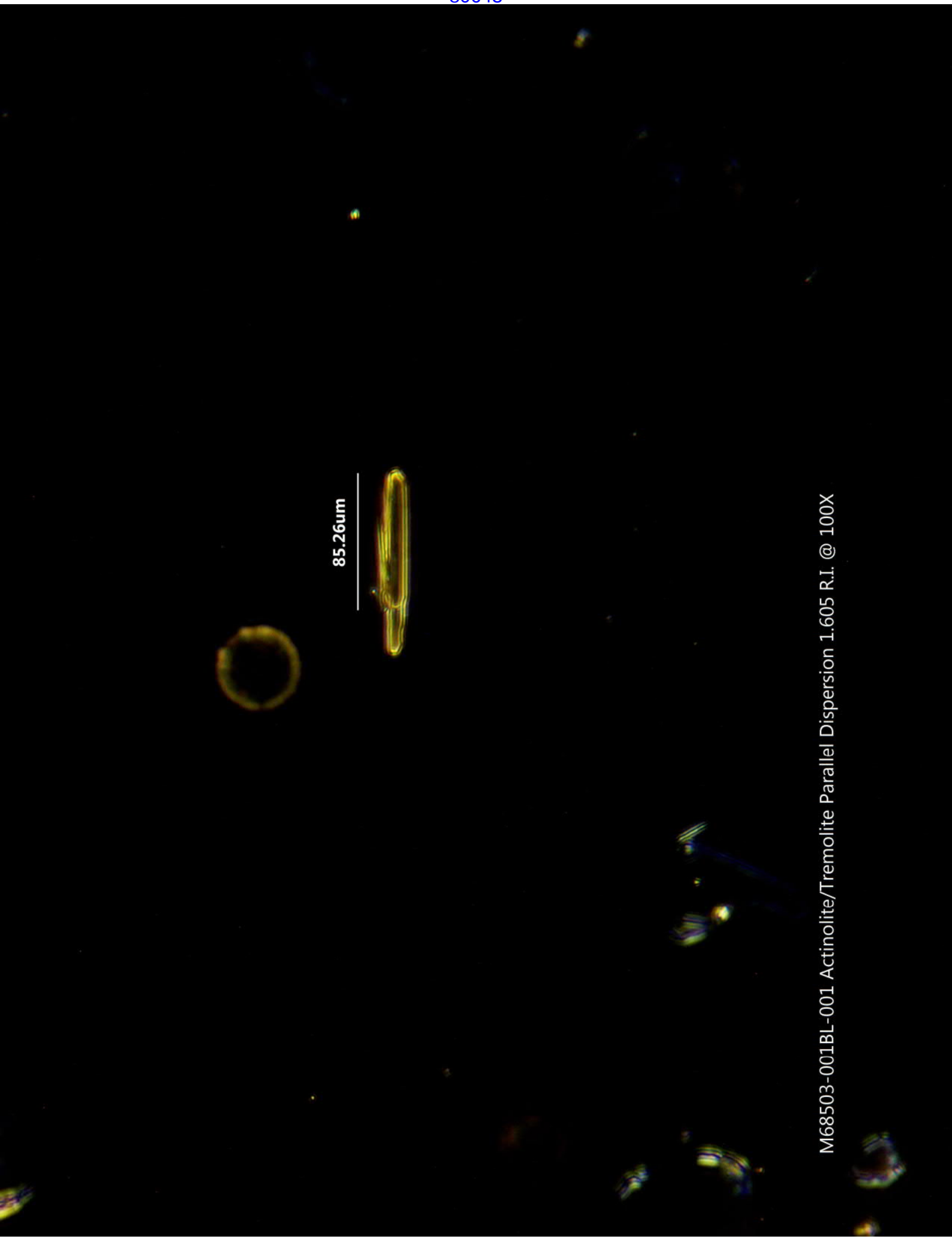

M68503-001ISO-001 Actinolite/Tremolite Crossed Polars


70.0um
M68503-001ISO-002 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X


M68503-001ISO-002 Actinolite/Tremolite Perpendicular Dispersion

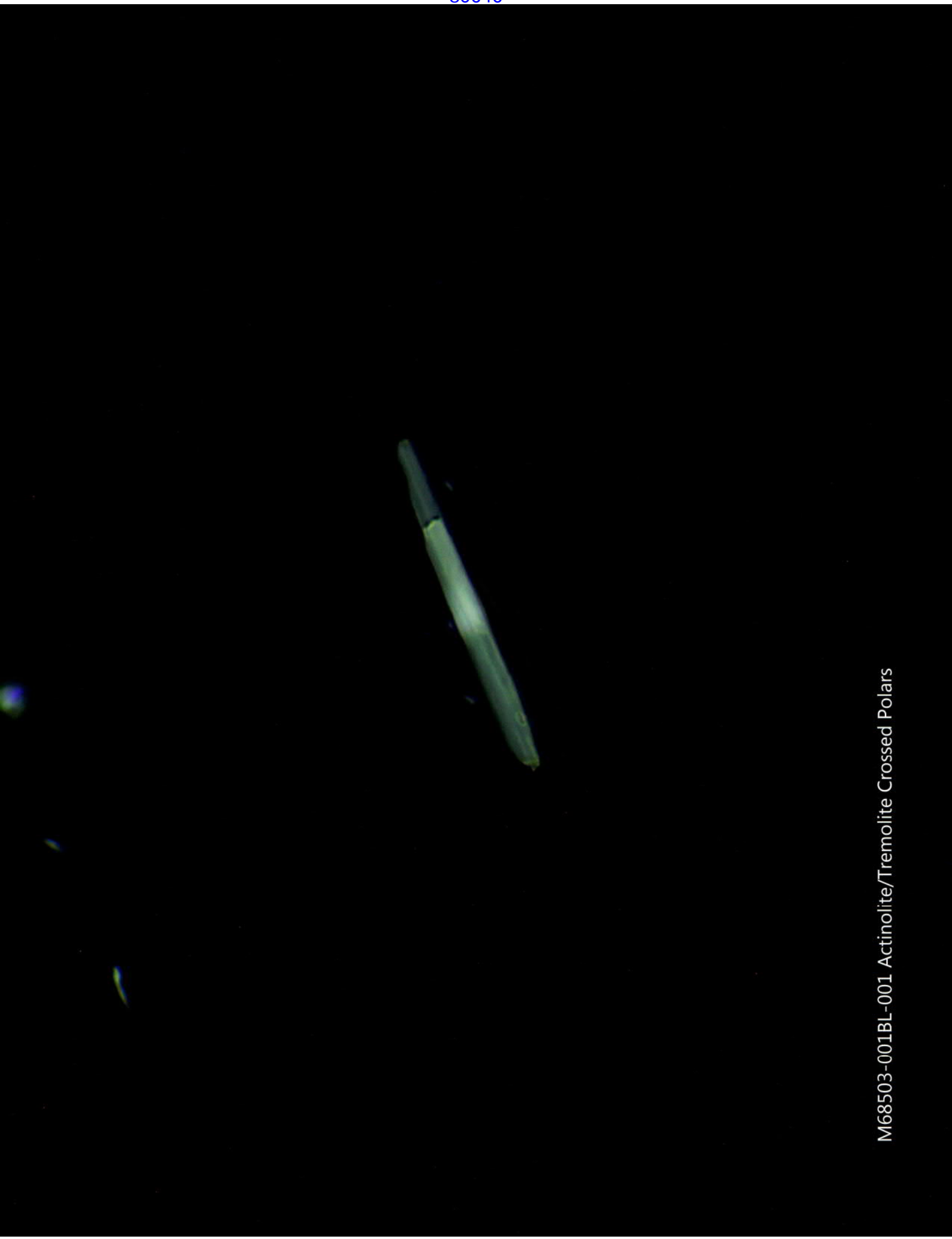

M68503-001ISO-002 Actinolite/Tremolite Elongation @ 200X


M68503-001ISO-002 Actinolite/Tremolite Crossed Polars


85.26um
M68503-001BL-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X


M68503-001BL-001 Actinolite/Tremolite Perpendicular Dispersion


M68503-001BL-001 Actinolite/Tremolite Elongation @ 200X


M68503-001BL-001 Actinolite/Tremolite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-001		Grid Box #	8623	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	10/22/2018-10/30/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02921			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A6-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	I1							
NSD	I2							
NSD	I3							
1	I4	Bundle	Anthophyllite	9.89	0.46	21.5	X	X
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	D1							
NSD	D2							
NSD	D3							
2	D4	Bundle	Tremolite	3.2	0.59	5.4	X	X
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
3	C8	Bundle	Tremolite	10.4	1.38	7.5	X	X

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-001		Grid Box #	8623	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	10/22/2018-10/30/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02921			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	B6-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	C9							
NSD	C10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-001		Grid Box #	8623	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	**G. O. Area**
Date of Analysis	10/22/2018-10/30/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02921			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	**Average**	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	**G.O.s Counted**	100
2	Screen Magnification	20 KX	**Area Examined mm²**			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS

Org. Sample Wt.	Sample Wt. Post HL Separation	
0.02921	0.02921	g
Percent of Orig. Post Separation	100	(%)

Wt. Of Sample Analyzed	0.00016014	g
Filter size	201.1	mm²
Number of Structures Counted	3	Str.
Structures per Gram of Sample	1.87E+04	Str./g

Detection Limit	6.24E+03	Str./g
Analytical Sensitivity	6.24E+03	Str./g

EDAX TEAM

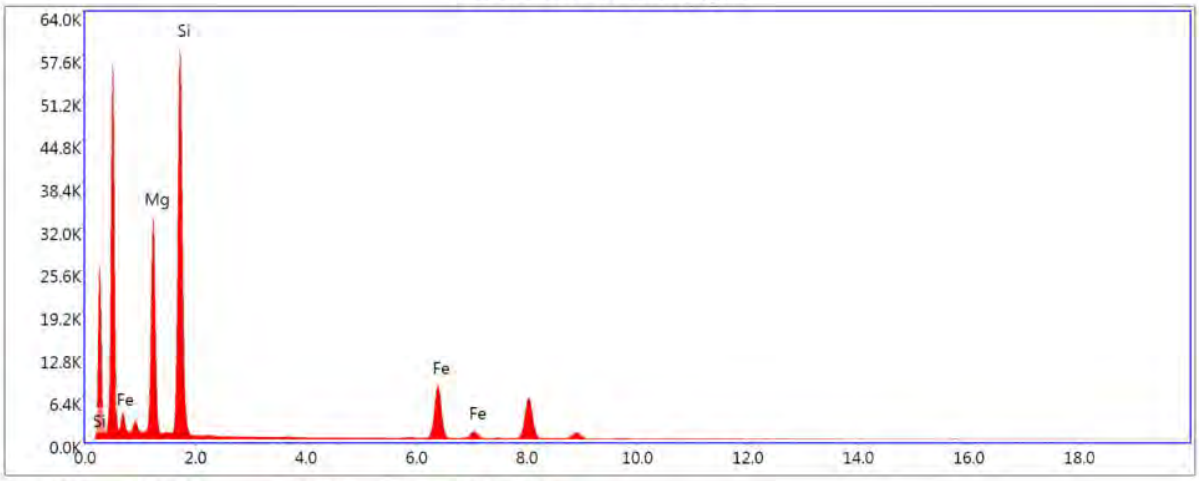
Analysis

Author: TEM #1

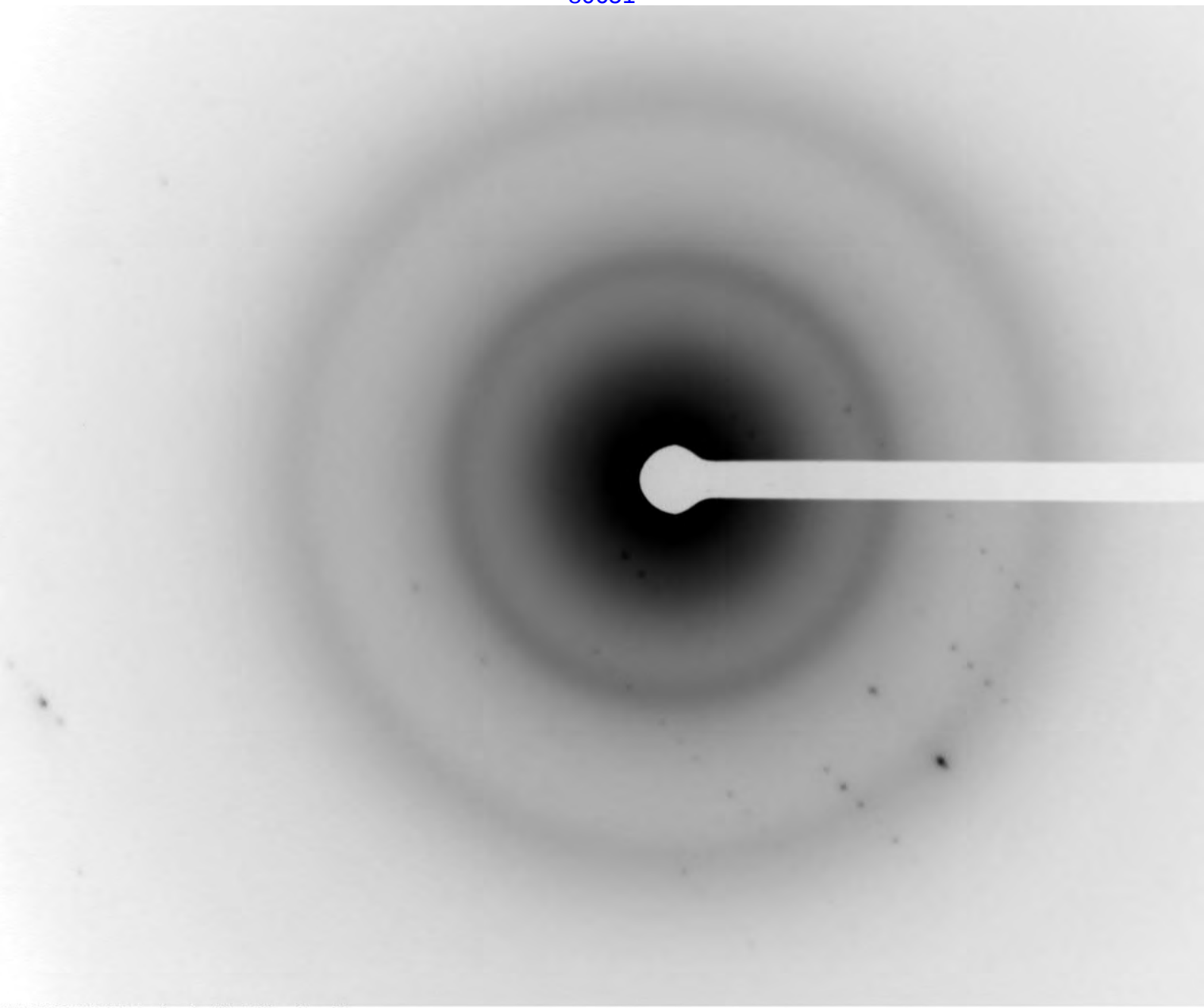
Creation: 10/22/2018 3:13:45 PM
Sample Name: M68503-001-001 Anthophyllite

kV: 100 Mag: 25000 Takeoff: 1 Live Time(s): 300 Amp Time(µs): 1.92 Resolution:(eV) 135.1

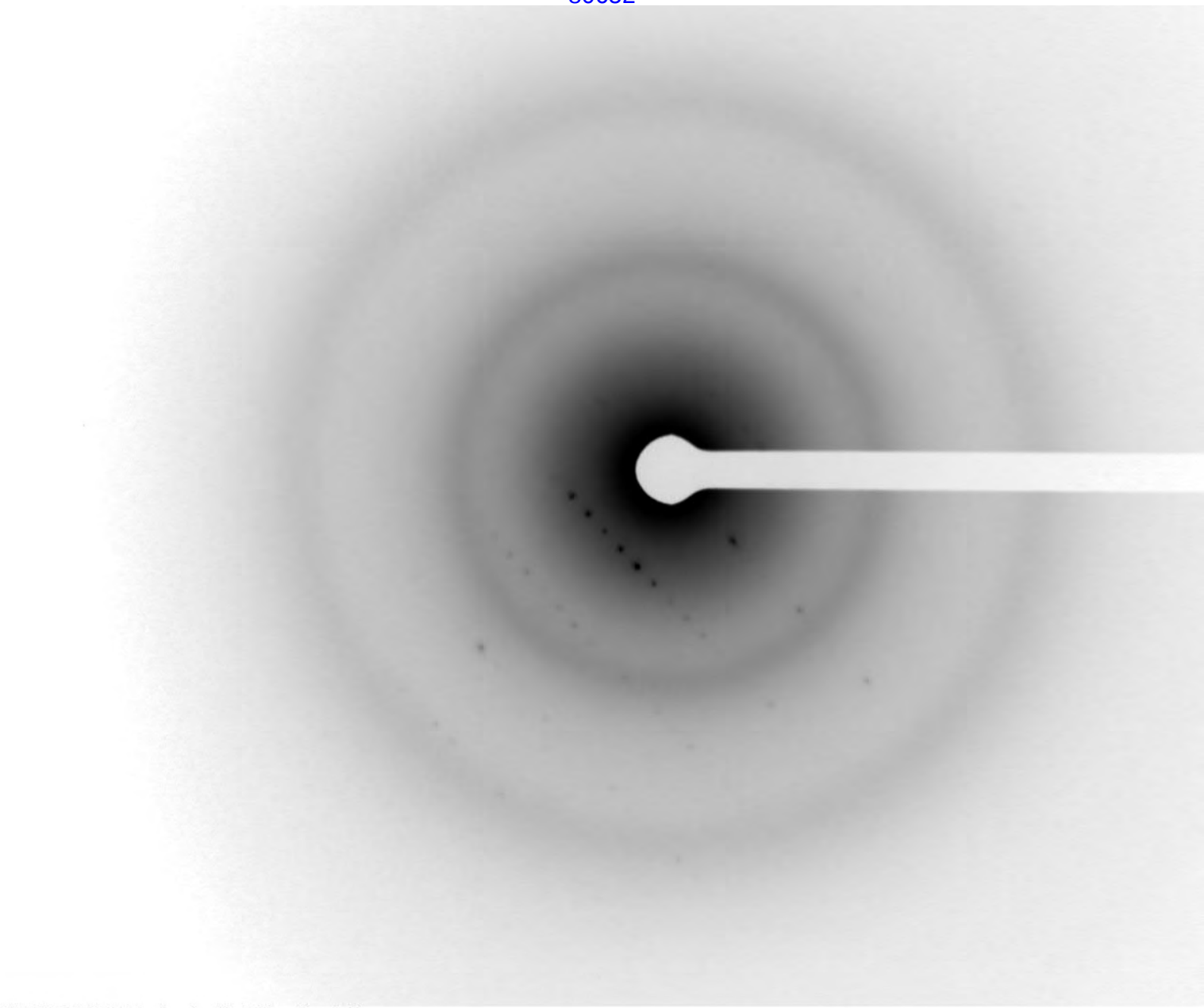
M68503-001-001 Anthophyllite



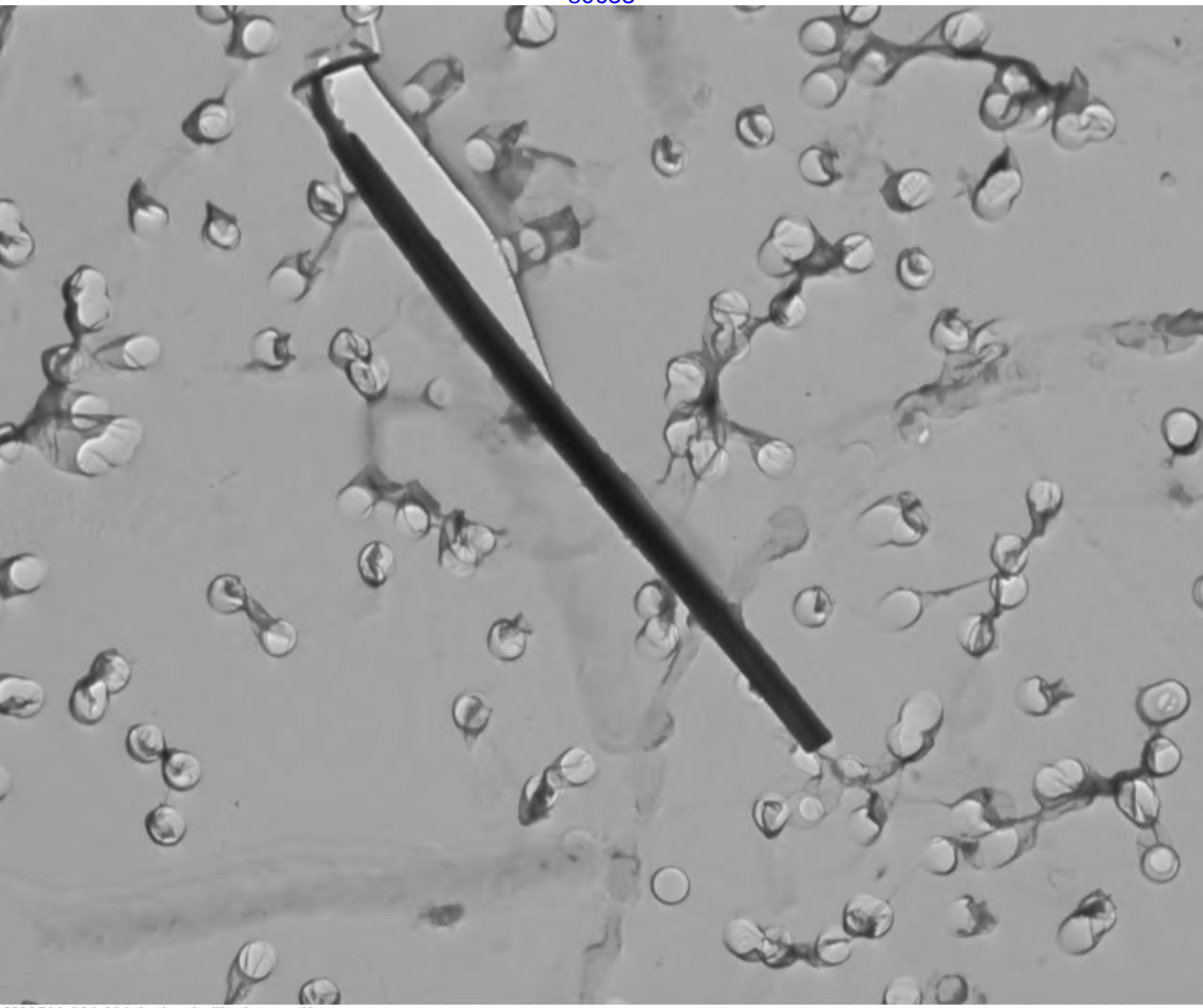
Lsec: 300.0 55.647K Cnts 1.730 keV Det: Apollo XLT2 SUTW



M68503-001-001 Anthophyllite Diffraction.tif
Diffraction @ 50 cm
10:08 10/29/2018



M68503-001-001 Anthophyllite Diffraction 2.tif
Diffraction @ 50 cm
10:59 10/29/2018



M68503-001-001 Anthophyllite Image.tif
(9.89 um x 0.46um)
09:32 10/22/2018

EDAX TEAM

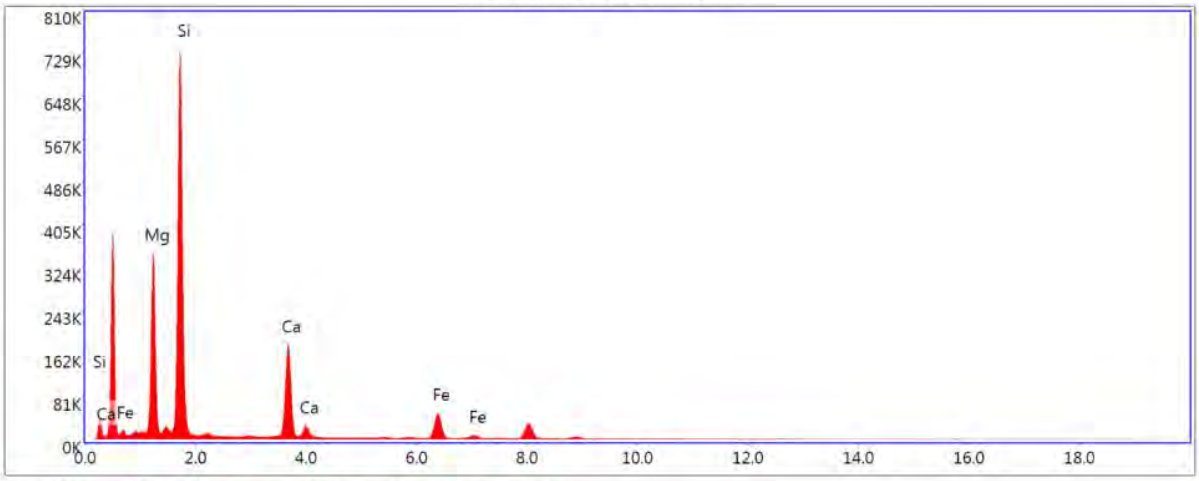
Analysis

Author: TEM # 1

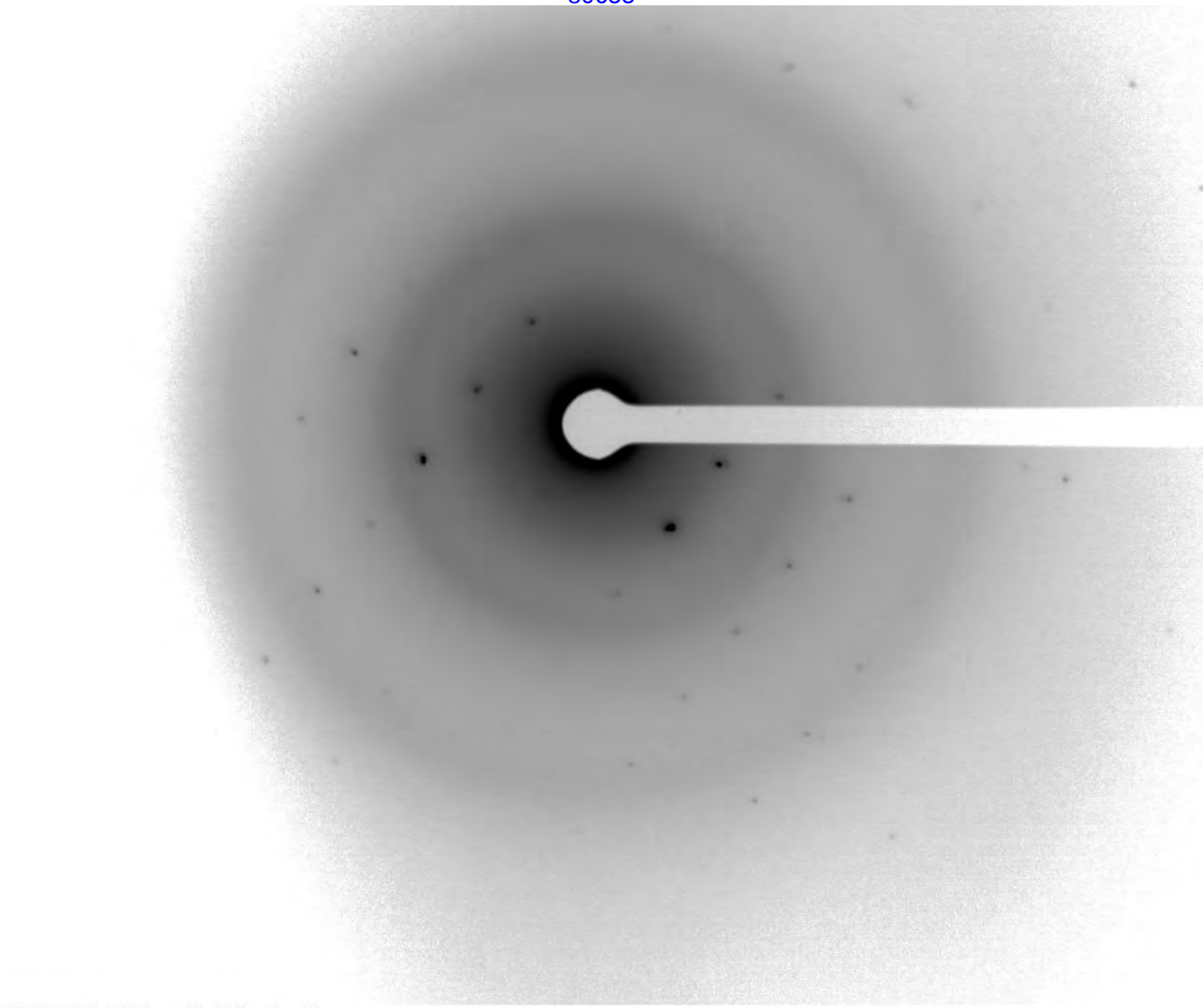
Creation: 10/23/2018 10:45:12 AM
Sample Name: M68503-001-002 Tremolite

kV: 100 Mag: 25000 Takeoff: 1 Live Time(s): 300 Amp Time(µs): 1.92 Resolution:(eV) 135.1

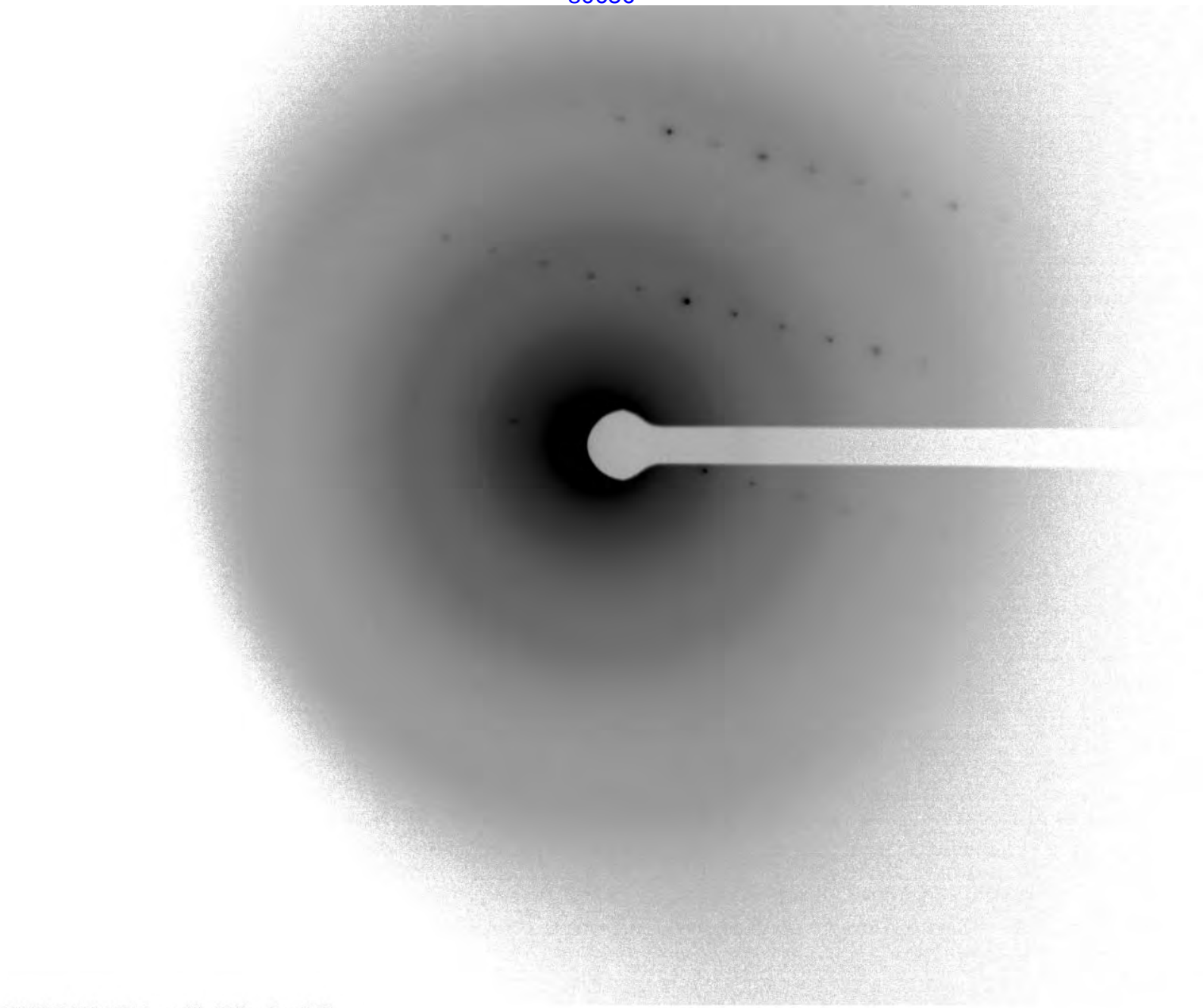
M68503-001-002 Tremolite



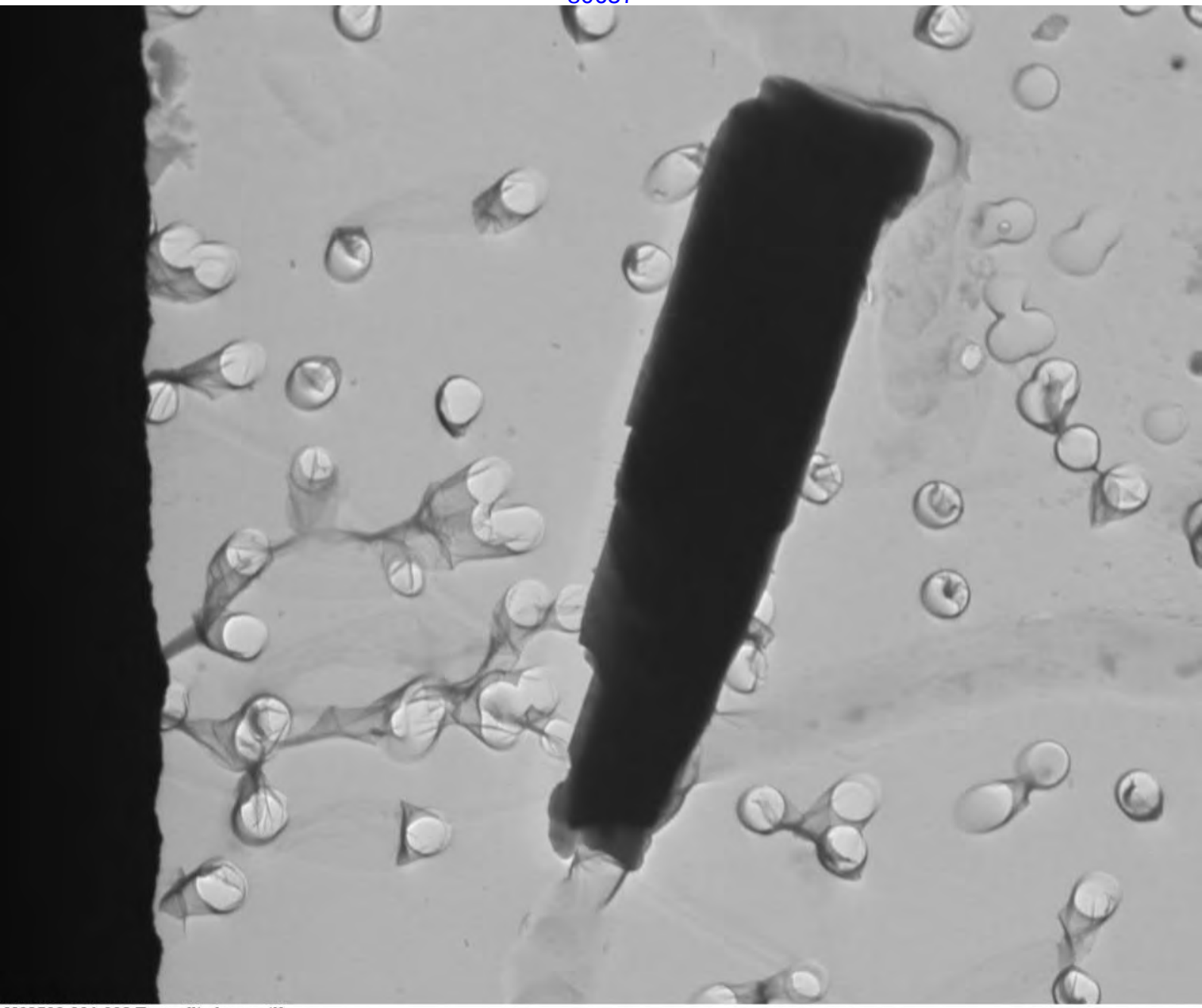
Lsec: 300.0 701,547K Cnts 1.730 keV Det: Apollo XLT2 SUTW



M68503-001-002 Tremolite Diffraction.tif
Diffraction @ 50 cm
08:38 10/23/2018



M68503-001-002 Tremolite Diffraction 2.tif
Diffraction @ 50 cm
09:01 10/23/2018



M68503-001-002 Tremolite Image.tif
(3.2um x 0.59um)
10:03 10/23/2018

EDAX TEAM

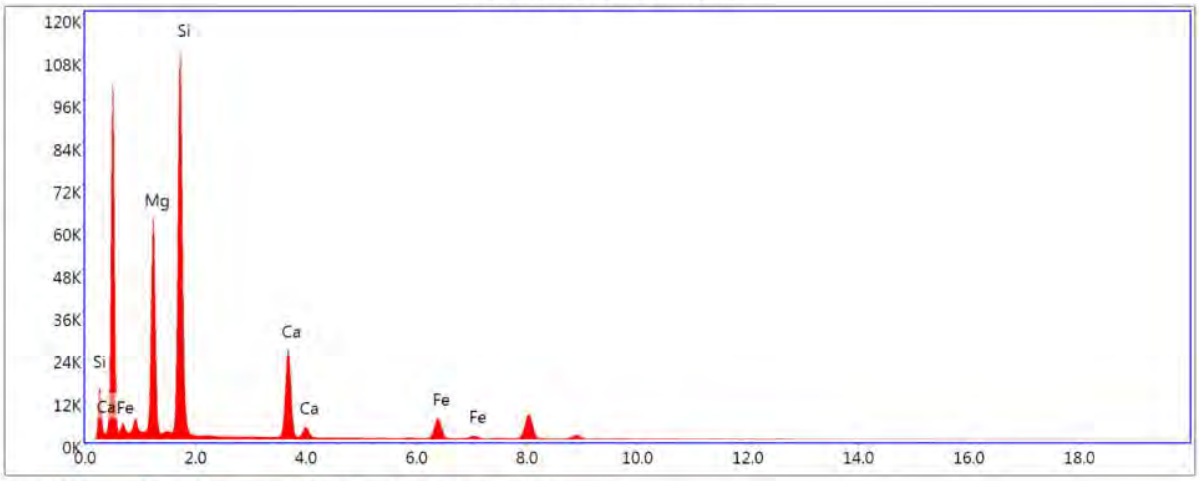
Analysis

Author: TEM #1

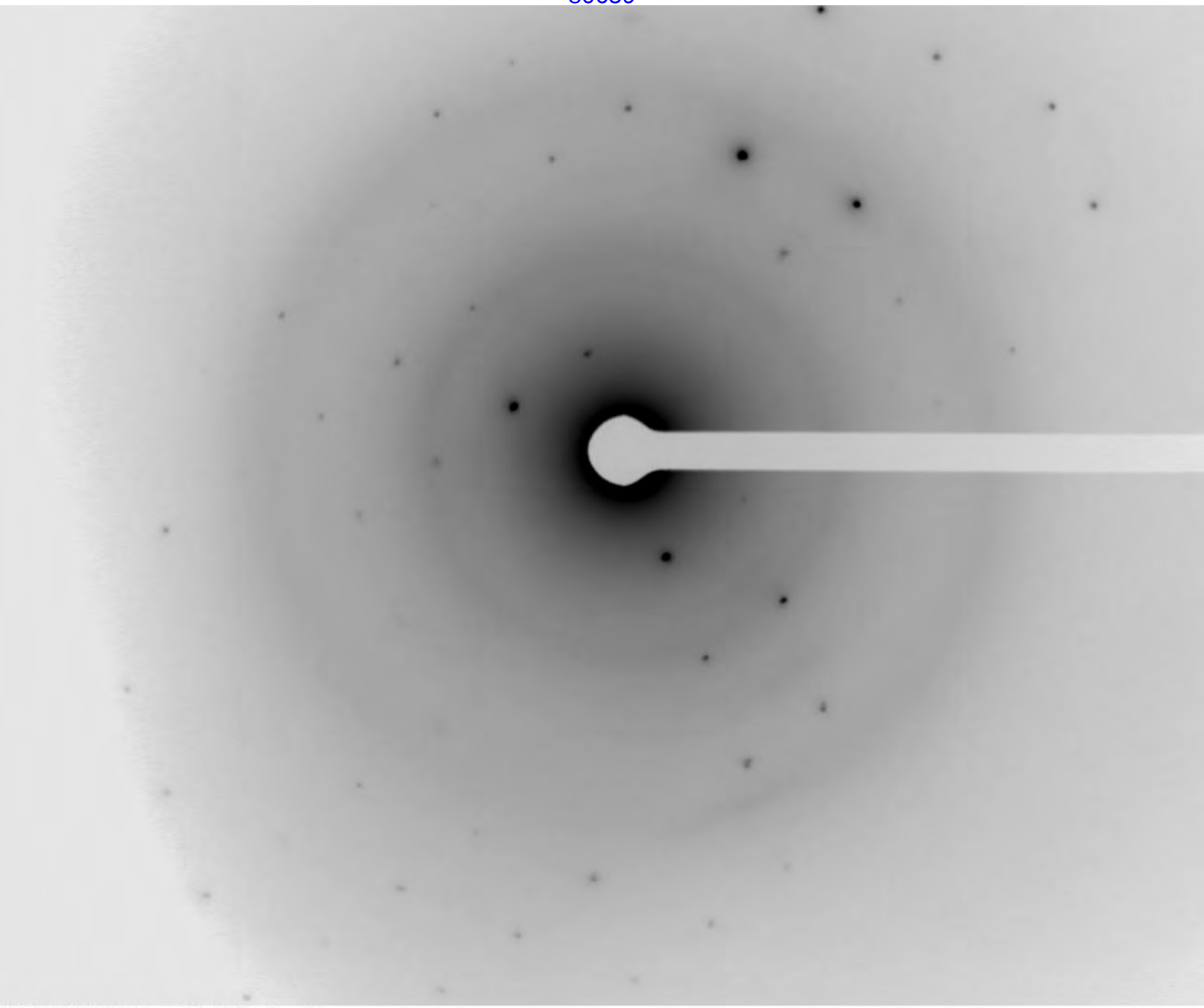
Creation: 10/24/2018 9:39:38 AM
Sample Name: M68503-001-003 Tremolite

kV: 100 Mag: 25000 Takeoff: 1 Live Time(s): 300 Amp Time(µs): 1.92 Resolution:(eV) 135.1

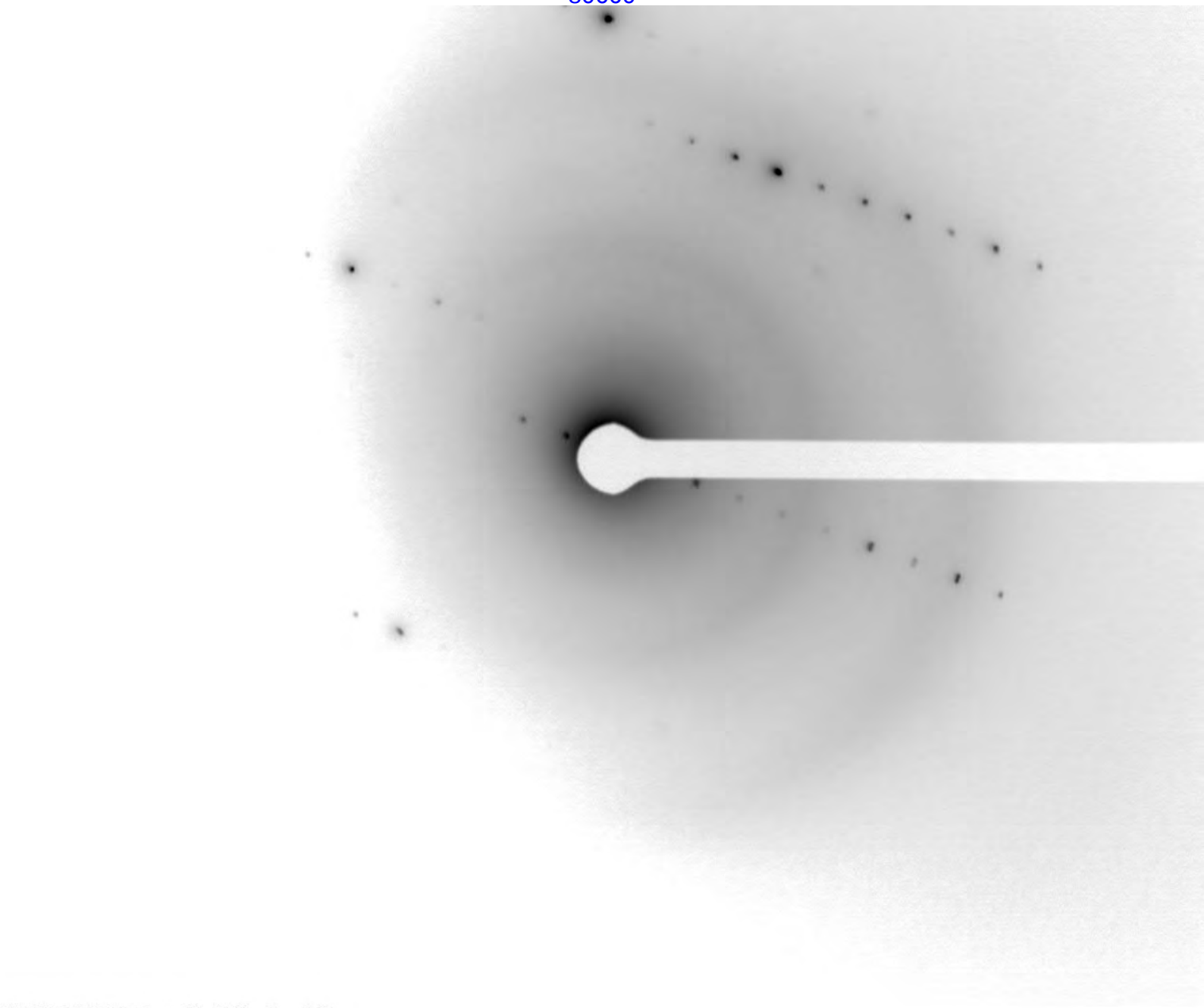
M68503-001-003 Tremolite



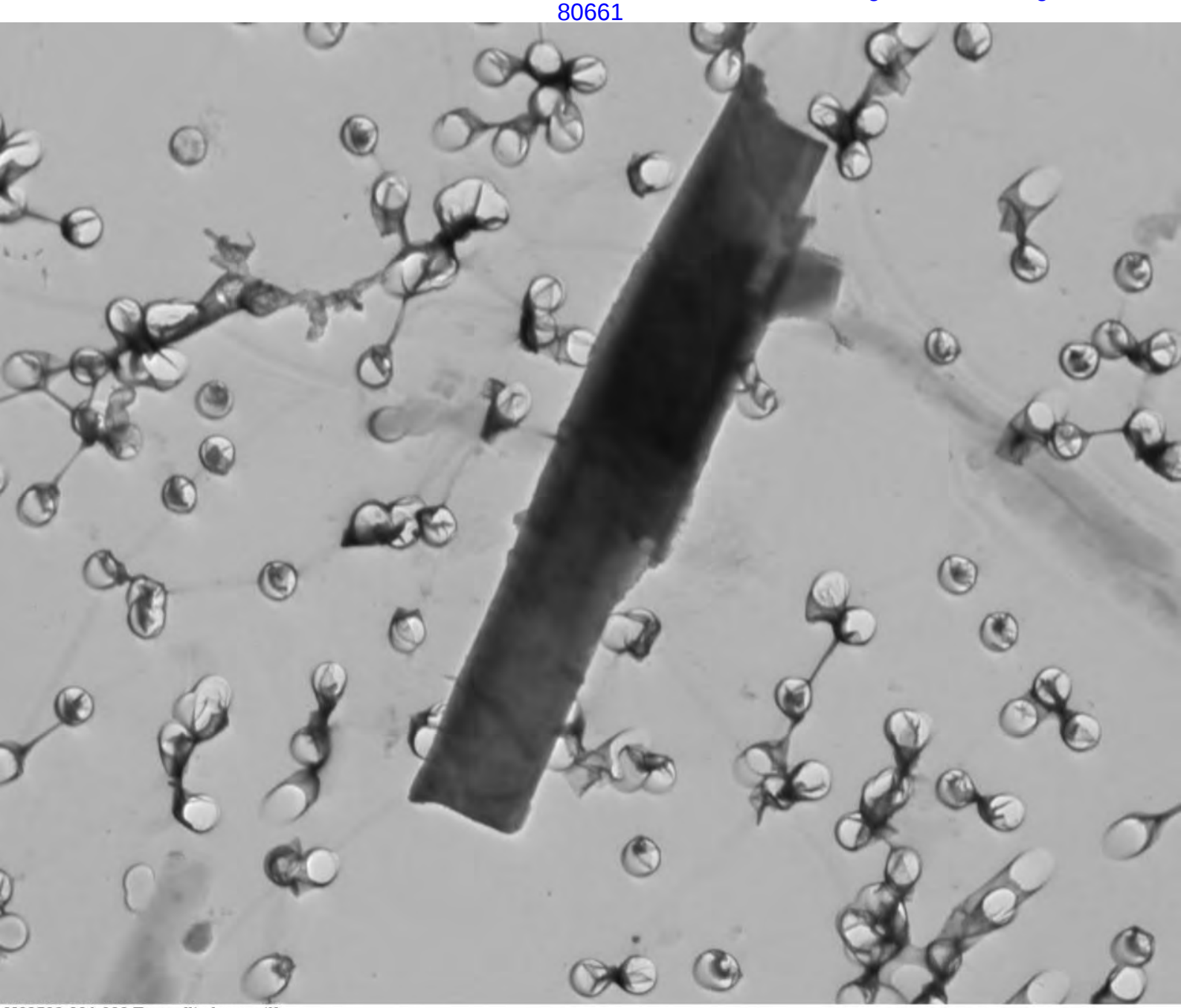
Lsec: 300.0 104.614K Cnts 1.730 keV Det: Apollo XLT2 SUTW



M68503-001-003 Tremolite Diffraction.tif
Diffraction @ 50 cm
09:15 10/24/2018



M68503-001-003 Tremolite Diffraction 2.tif
Diffraction @ 50cm
13:31 10/23/2018



M68503-001-003 Tremolite Image.tif
(10.4um x 1.38um)
09:25 10/24/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-001		Grid Box #	8623	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	**G.O. Area**
Date of Analysis	10/22/2018-10/30/18		G. O. in microns =	105	105	105
Initial Weight(g)	0.02921			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	**Average**	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	**G.O.s Counted**	100
2	Screen Magnification	20 KX	**Area Examined mm²**			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	B6-J8	F-Talc	12.7	0.87	14.6	Fibrous Talc Observed Trace Throughout	

EDAX TEAM

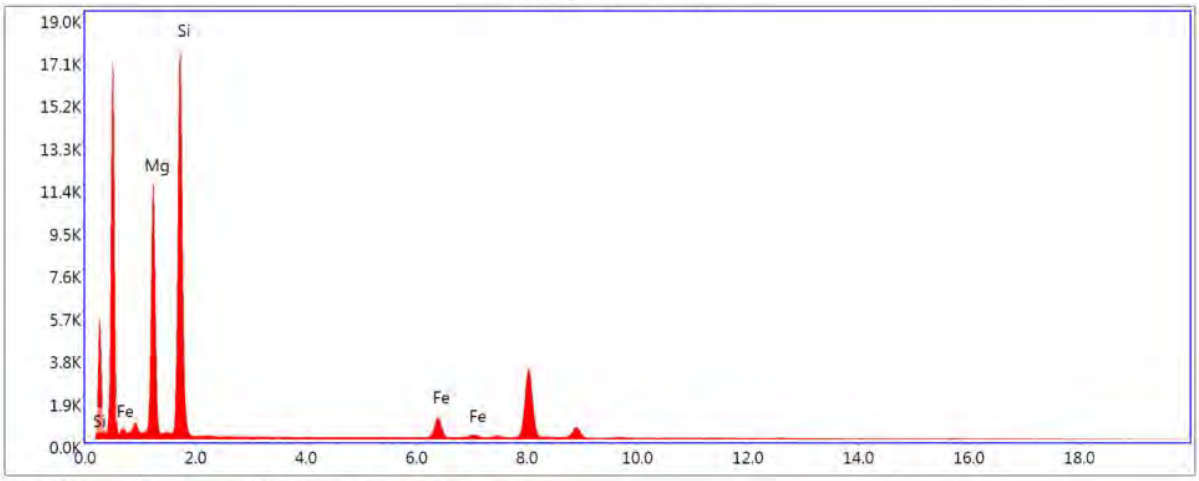
Analysis

Author: TEM # 1

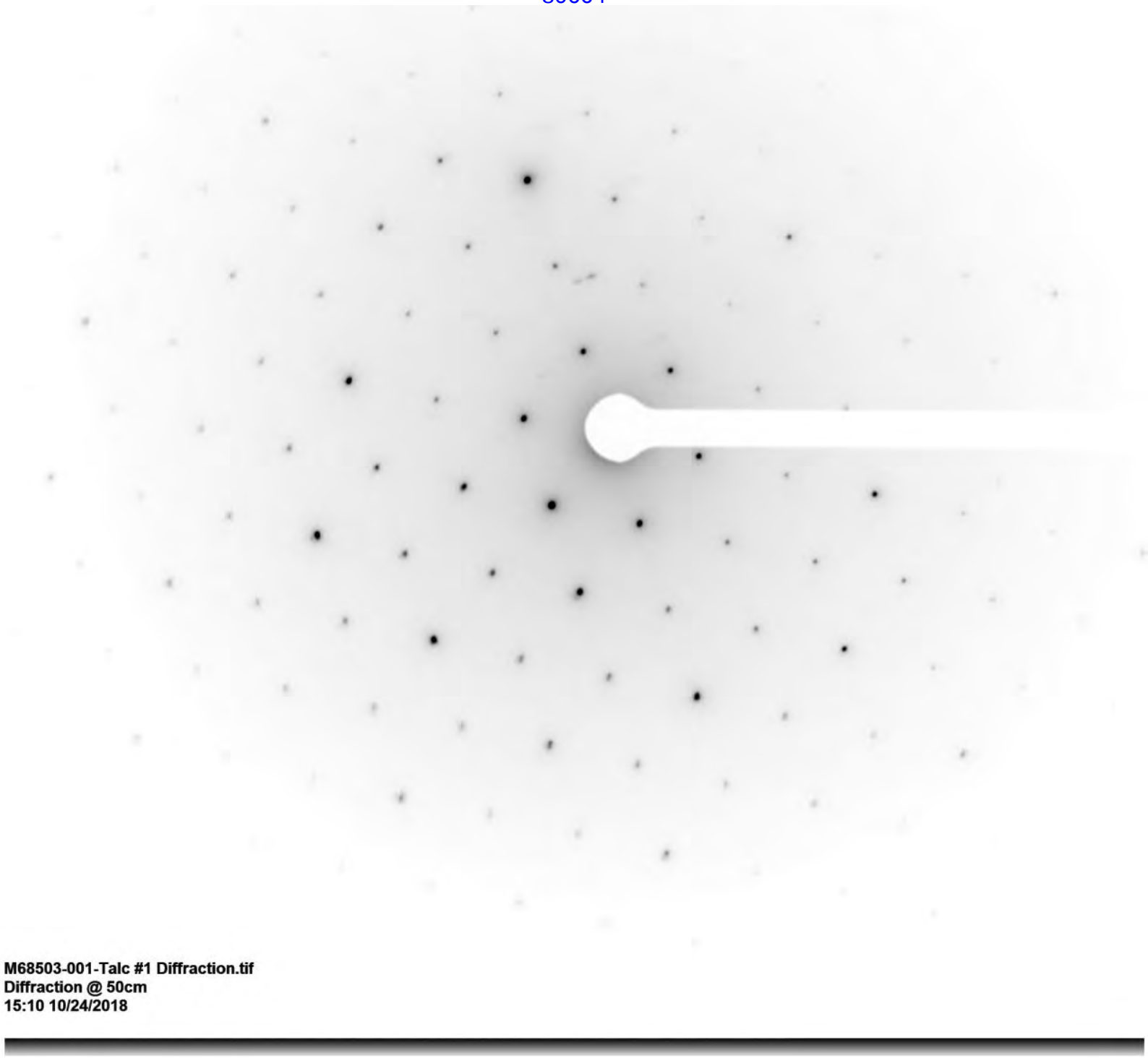
Creation: 10/25/2018 9:02:54 AM
Sample Name: M68503-001-Talc #1

kV:	Mag:	Takeoff:	Live Time(s):	Amp Time(µs):	Resolution:(eV)
100	25000	1	300	1.92	135.1

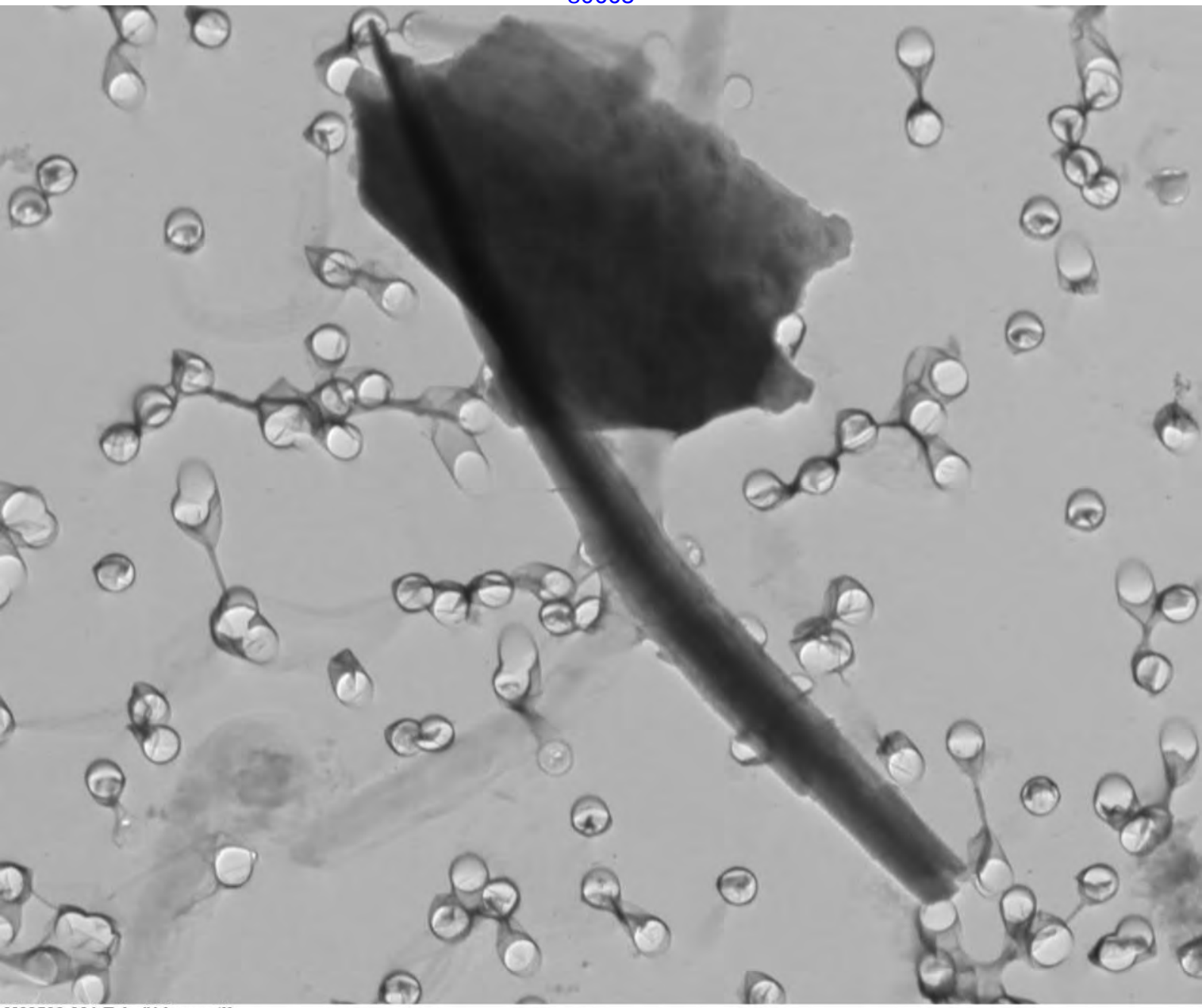
M68503-001-Talc #1



Lsec: 300.0 32 Cnts 16.550 keV Det: Apollo XLT2 SUTW



M68503-001-Talc #1 Diffraction.tif
Diffraction @ 50cm
15:10 10/24/2018



M68503-001-Talc #1 Image.tif
(12.7um x 0.87um)
15:14 10/24/2018

Determination of Asbestos in Talc by PLM

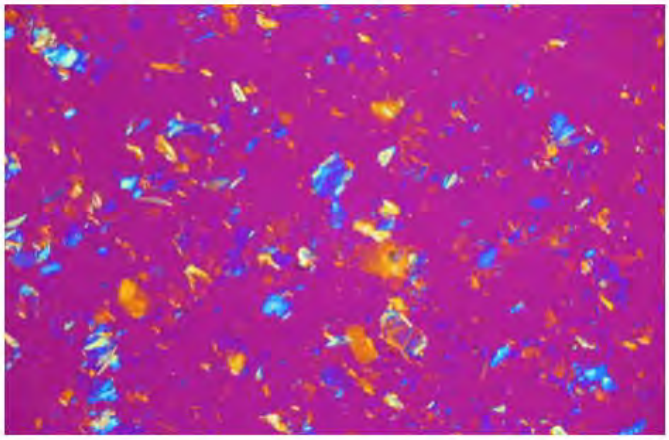
ISO 22262-1:2014

Sample M68708-001

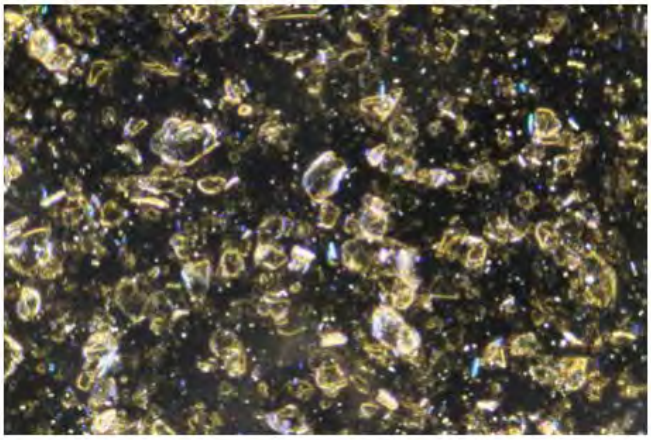
The sample was a white powder containing >95% platy Talc particles of approximately 150µm in size.

No asbestos was detected by PLM.

Polarized Light Microscope Images



100X Magnification of Talc Particles Crossed polars and 530nm gypsum compensator plate

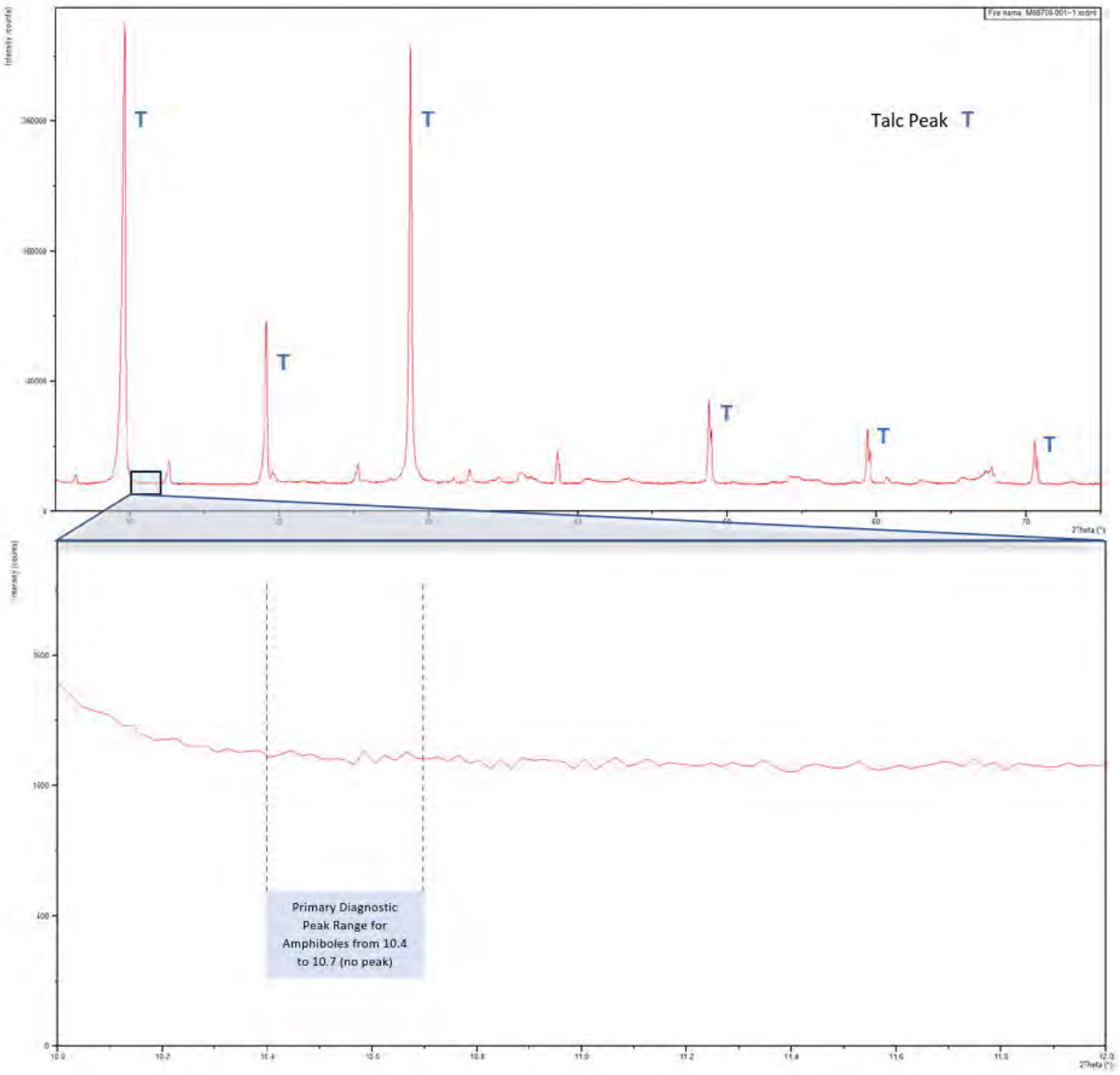


100X Magnification dispersion staining of Talc Particles 1.550 refractive index oil

Determination of Asbestos in Talc by XRD

ISO 22262-3:2016

Sample M68708-001



No Amphibole Peak Present

Section 12

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M69042 - 010 **Analyst** Paul Hess **Date** 10/12/2018

ClientName LEVY & KONIGSBERG **ClientSpl** 20180070-86D

Location

Type_Mat Johnson & Johnson Talcum Powder

Gross Visual Off-white powder **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.638/1.624		
Sign^	positive		
Extinction	oblique		
Birefringence	moderate		
Melt	no		
Fiber Name	Actinolite/Tremolite		

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	< 0.1
Anthophyllite.....	

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***

NON FIBROUS COMPONENTS

Opaques	X
Talc	X
Mineral grains	X

Binder Description

Comments Actinolite/Tremolite asbestos observed. *** Moderate amount Fibrous talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M69042 - 010BL **Analyst** Paul Hess **Date** 10/15/2018

ClientName LEVY & KONIGSBERG **ClientSpl** 20180070-86D

Location

Type_Mat Johnson & Johnson Talcum Powder

Gross Visual White debris on slide **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.635/1.620		
Sign^	positive		
Extinction	parallel		
Birefringence	moderate		
Melt	no		
Fiber Name	Anthophyllite		

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

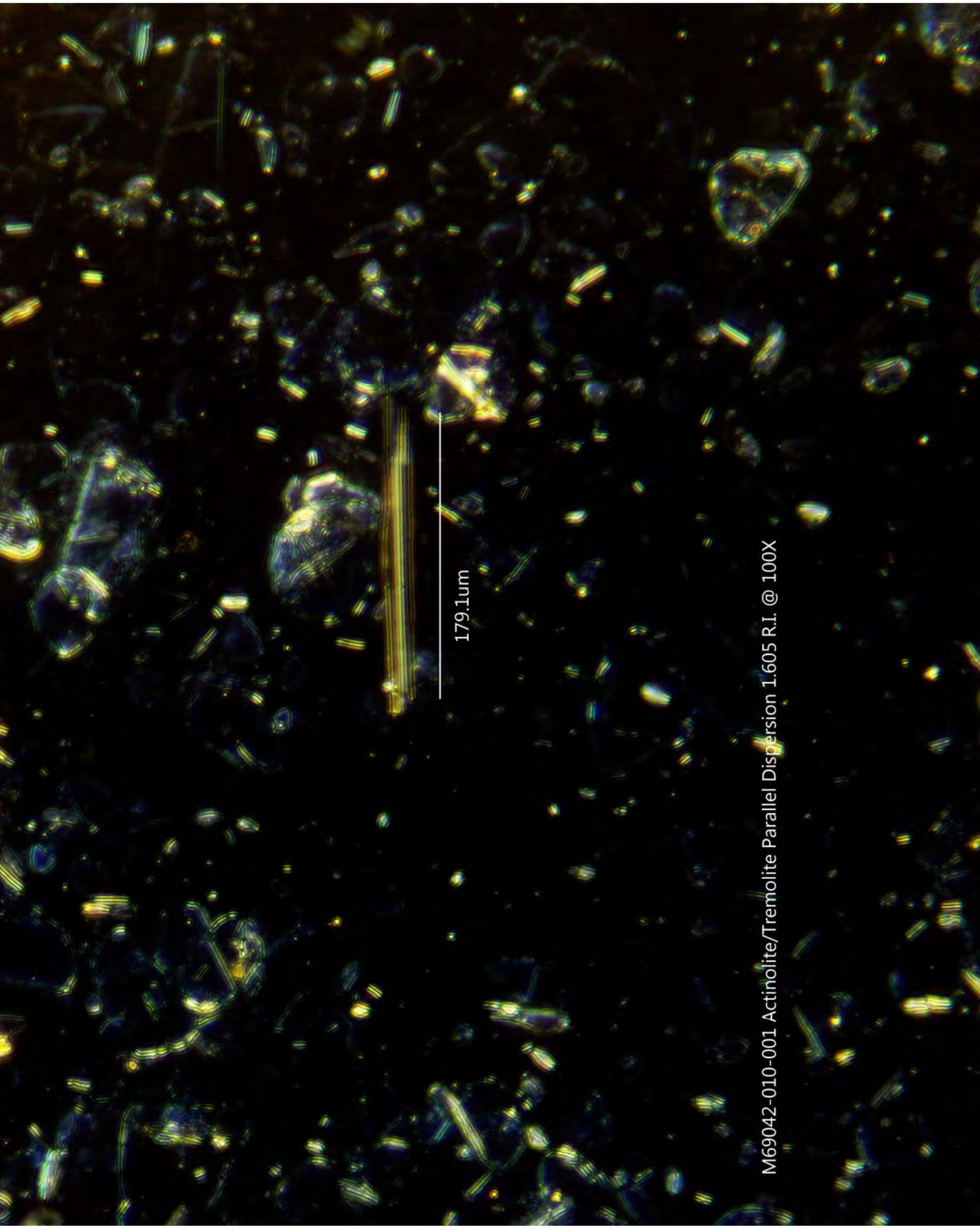
NON FIBROUS COMPONENTS

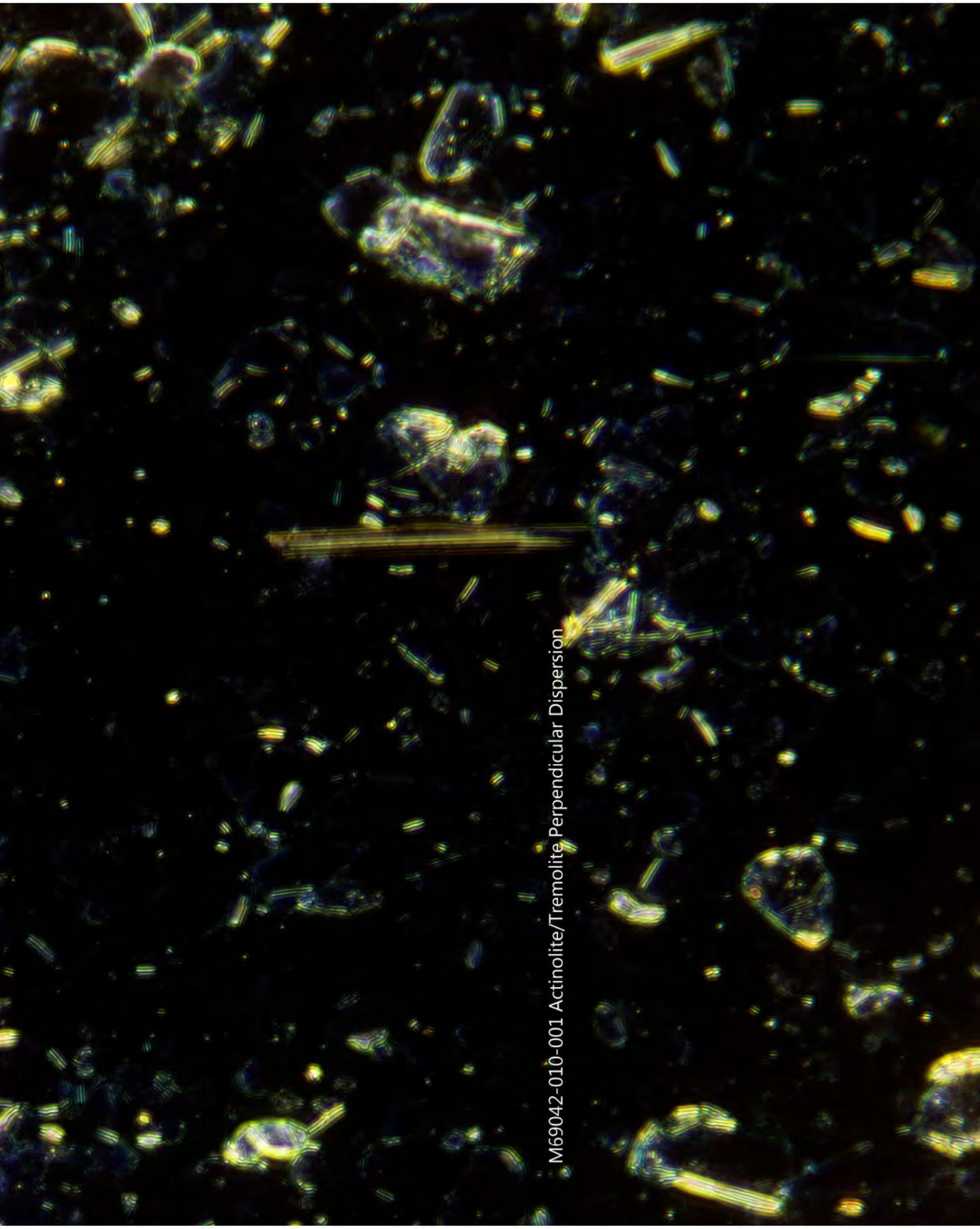
Opaques	X
Talc	X
Mineral grains	X

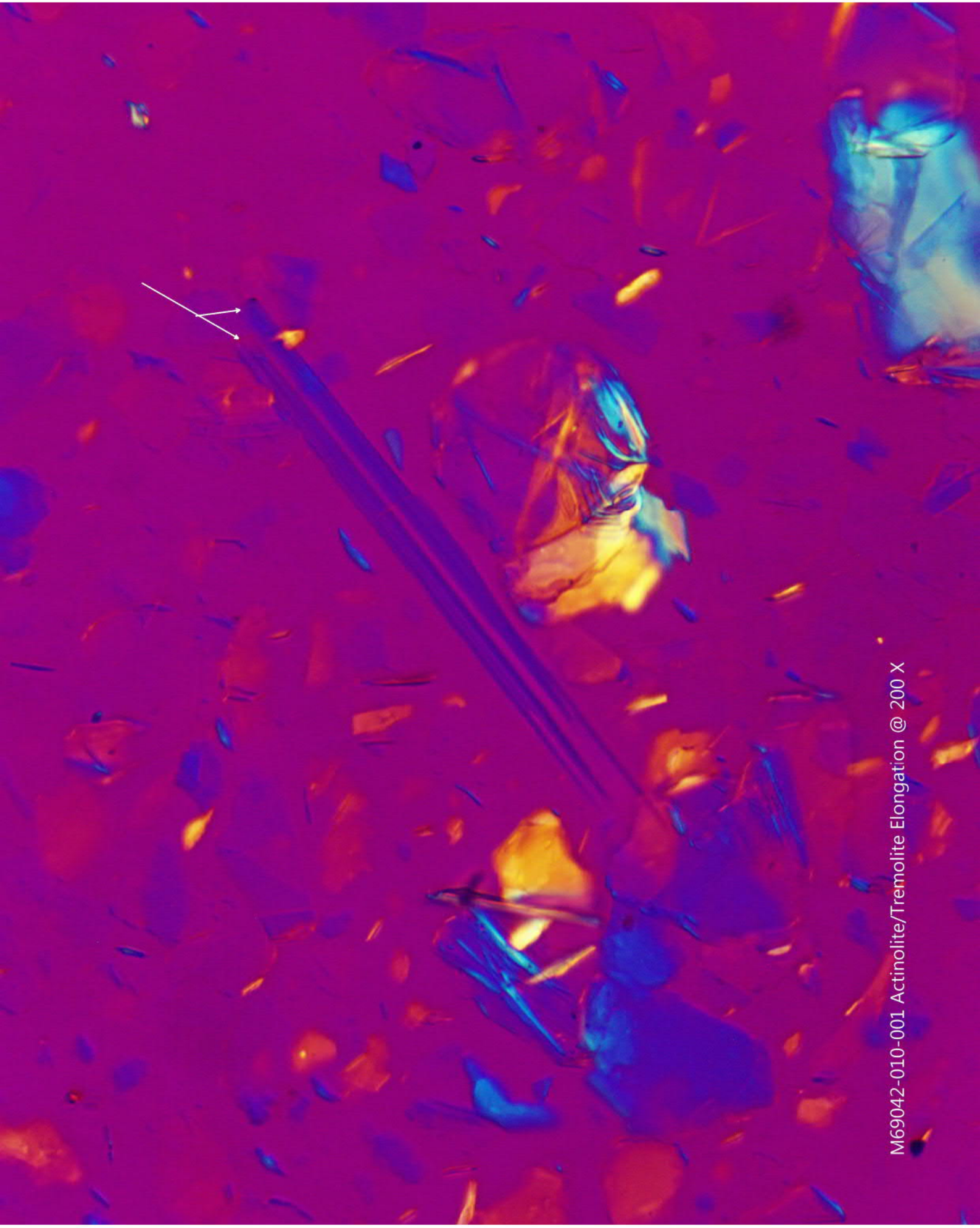
Binder Description

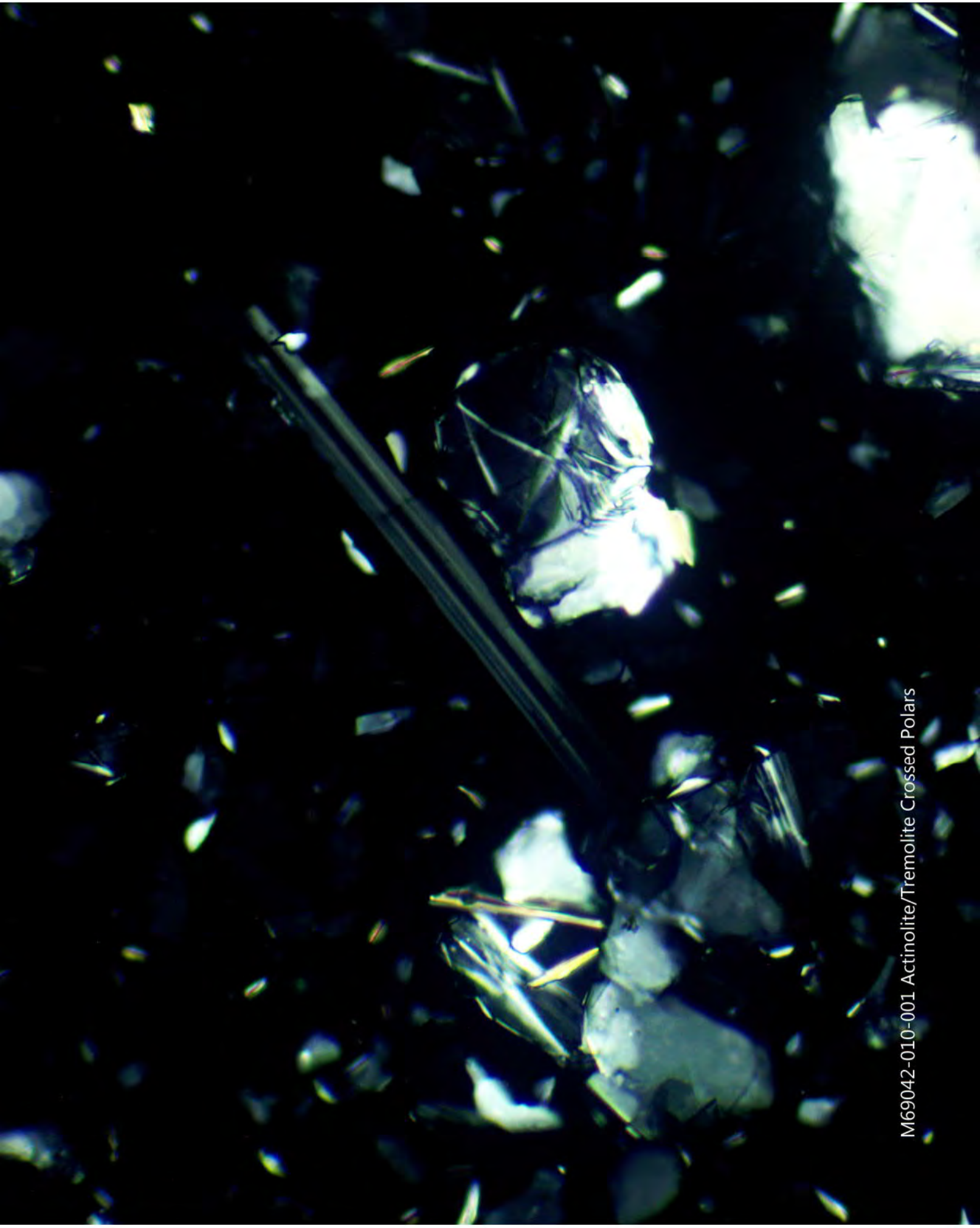
Comments Anthophyllite asbestos observed. Actinolite/Tremolite cleavage fragments/particles exhibiting a width to length ratio of <3-1 observed. X = Materials detected.

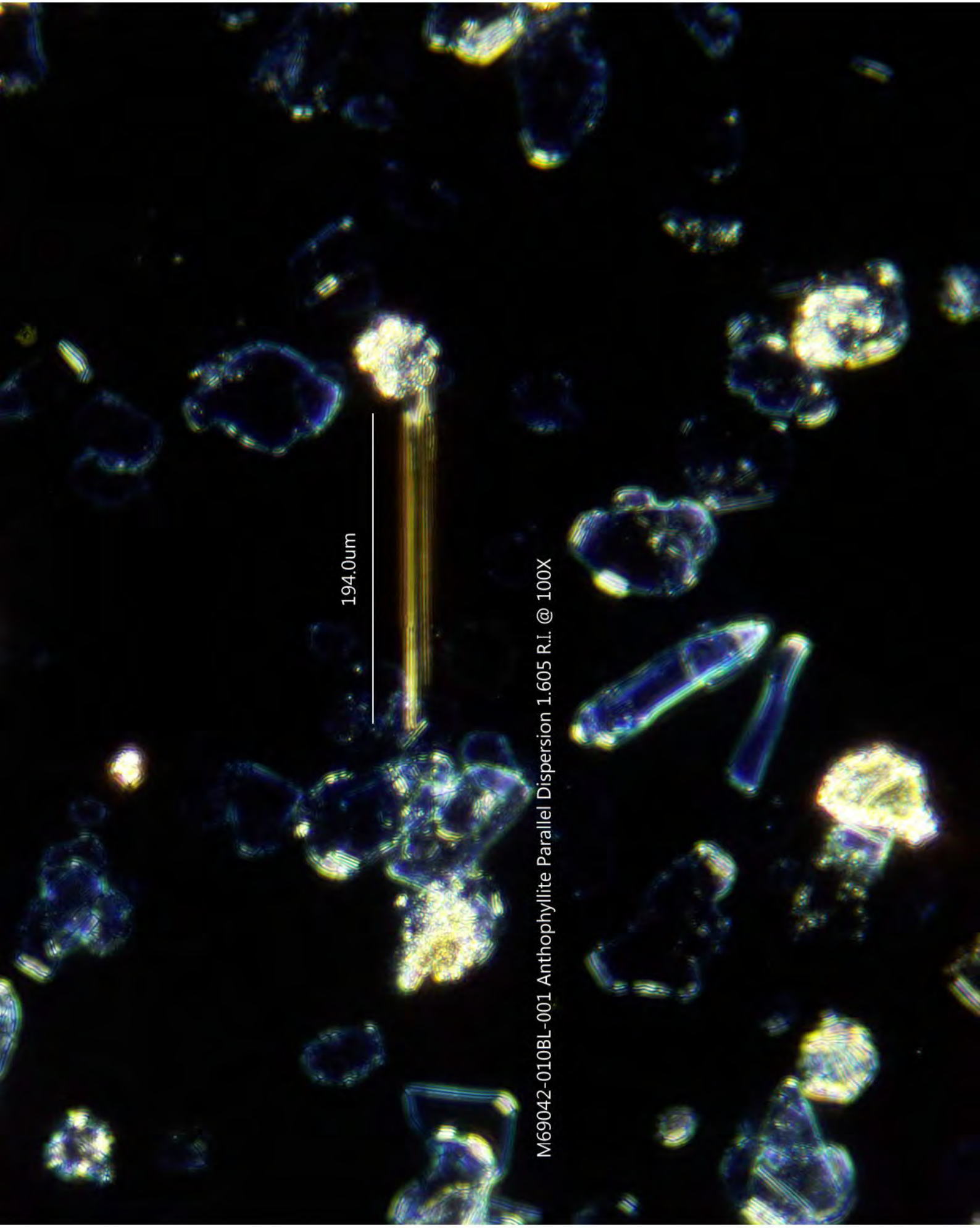
The method detection limit is 1% unless otherwise stated.

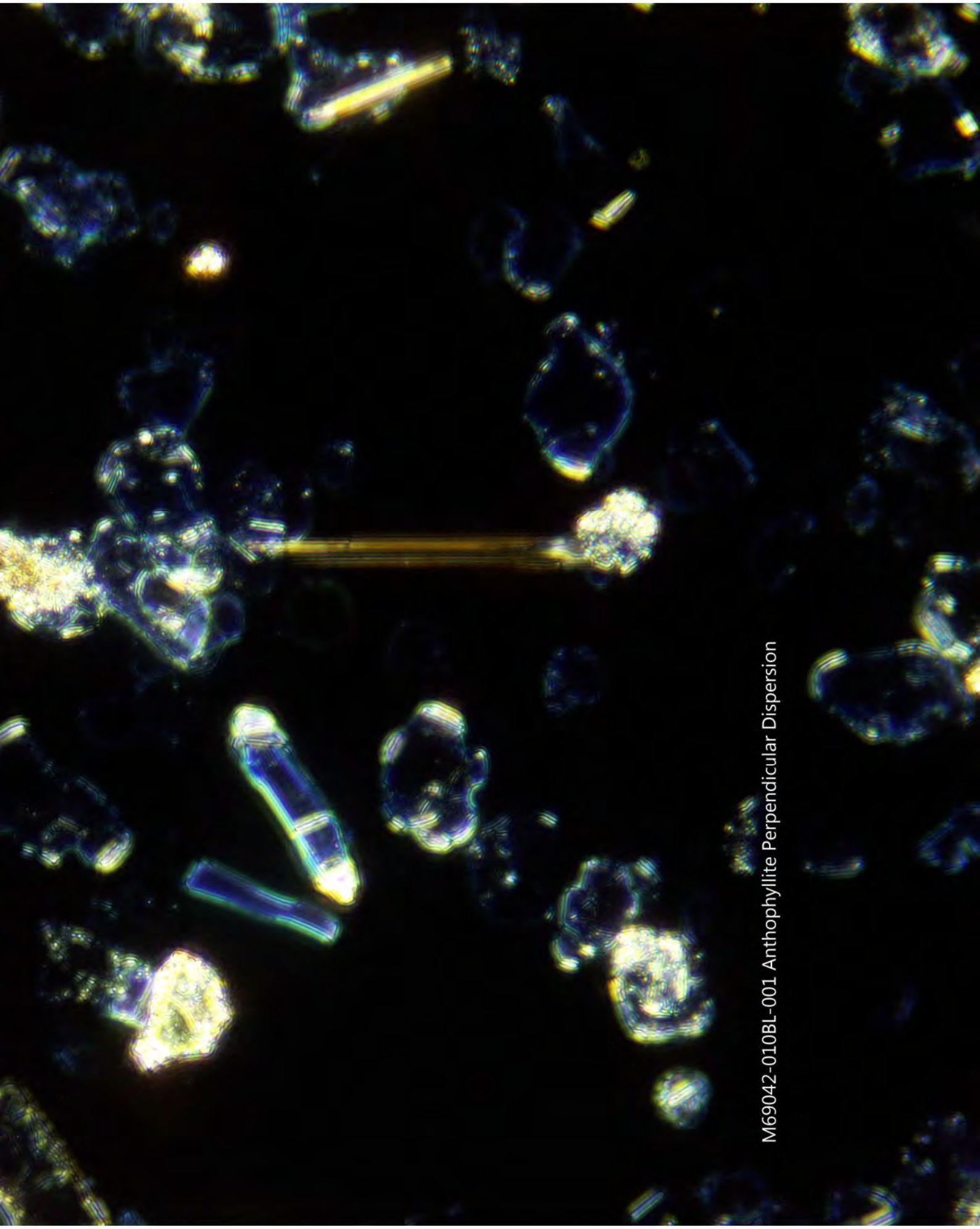

179.1um
M69042-010-001 Actinolite/Tremolite Parallel Dispersion 1.605 R.I. @ 100X


M69042-010-001 Actinolite/Tremolite Perpendicular Dispersion

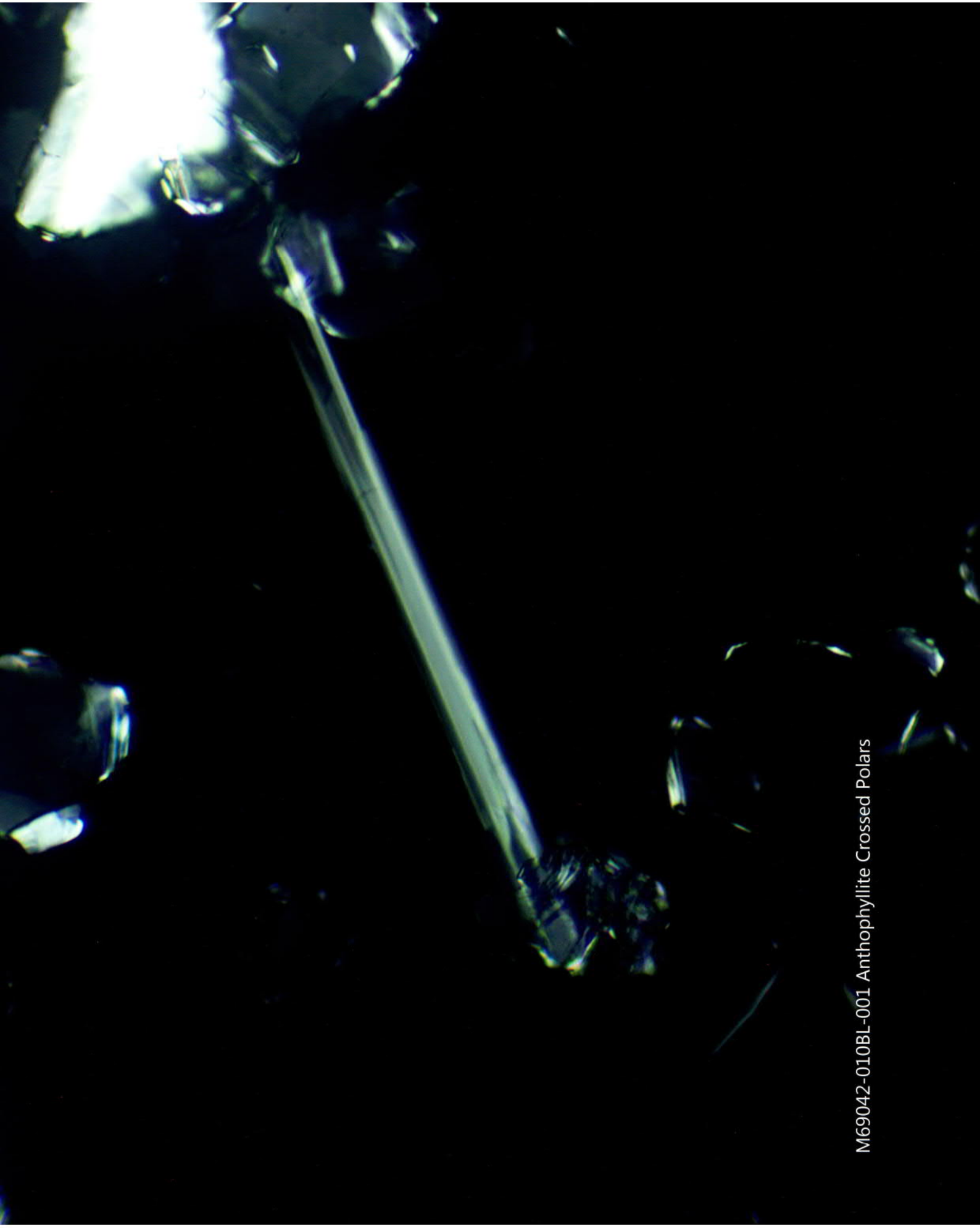

M69042-010-001 Actinolite/Tremolite Elongation @ 200 X


M69042-010-001 Actinolite/Tremolite Crossed Polars


194.0um
M69042-010BL-001 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X


M69042-010BL-001 Anthophyllite Perpendicular Dispersion


M69042-010BL-001 Anthophyllite Elongation @ 200X


M69042-010BL-001 Anthophyllite Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-010		Grid Box #	8633	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	10/19/2018 & 10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02922			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E1-B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F3							
NSD	F4							
1	F5	Bundle	Anthophyllite	9.2	1.5	6.1	X	X
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-010		Grid Box #	8633	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	10/19/2018 & 10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02922			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E2-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
2	A9	Bundle	Anthophyllite	8.9	0.42	21.2	X	X
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							

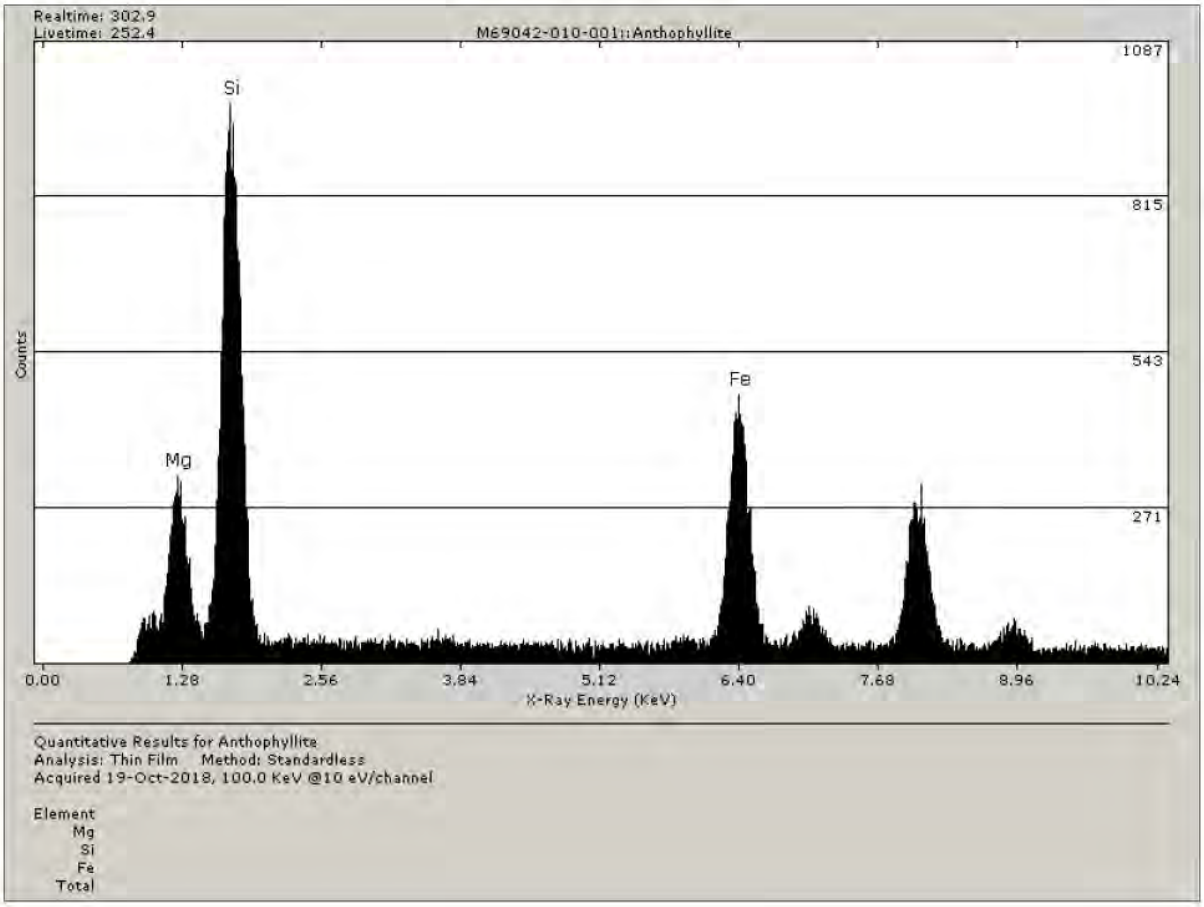
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-010		Grid Box #	8633	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	**G. O. Area**
Date of Analysis	10/19/2018 & 10/29/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02922			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	**Average**	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	**G.O.s Counted**	100
3	Screen Magnification	20 KX	**Area Examined mm²**			1.103

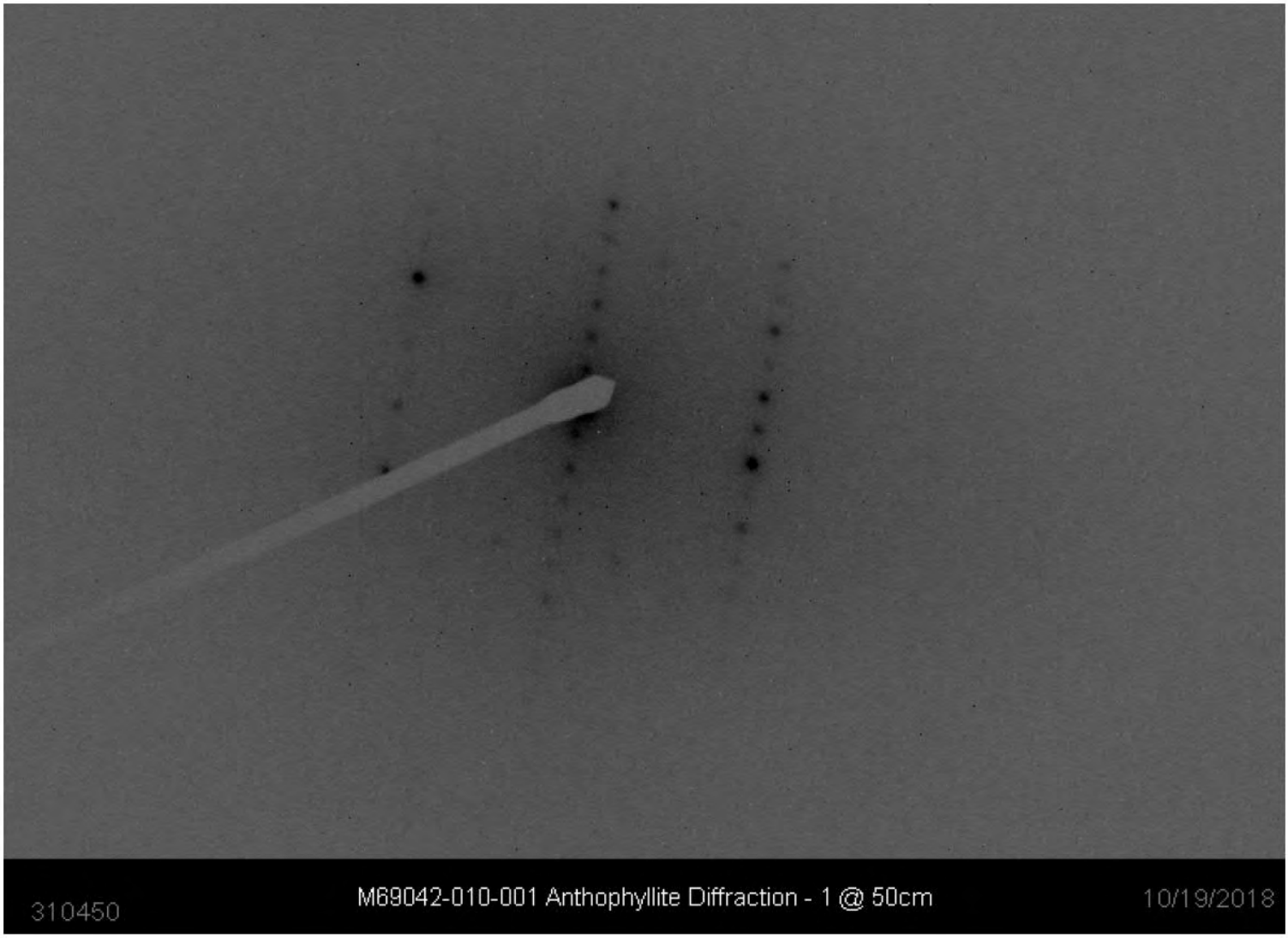
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS

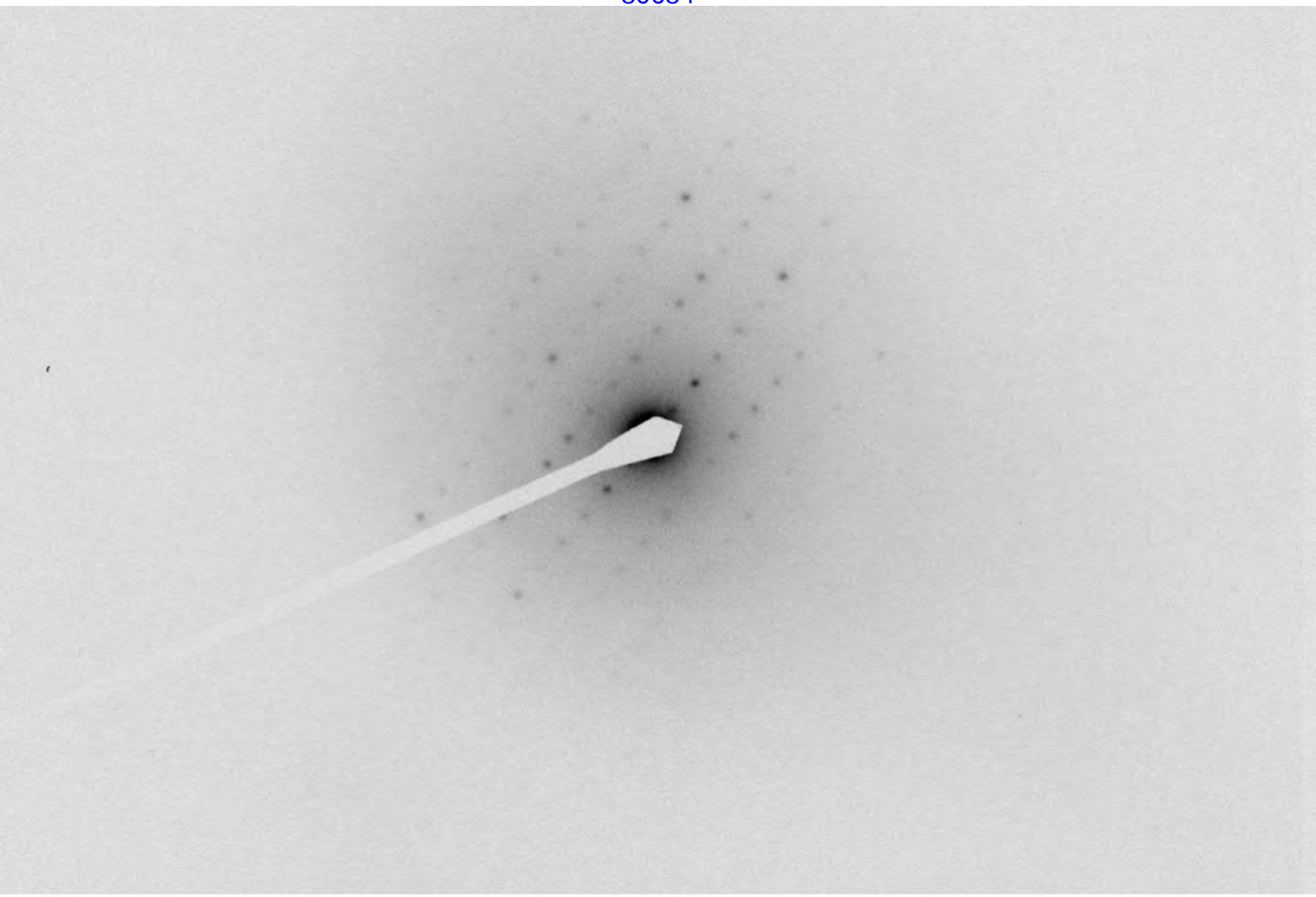
Org. Sample Wt.	Sample Wt. Post HL Separation	
0.02922	0.02922	g
Percent of Orig. Post Separation	100	(%)

Wt. Of Sample Analyzed	0.00016019	g
Filter size	201.1	mm²
Number of Structures Counted	2	Str.
Structures per Gram of Sample	1.25E+04	Str./g

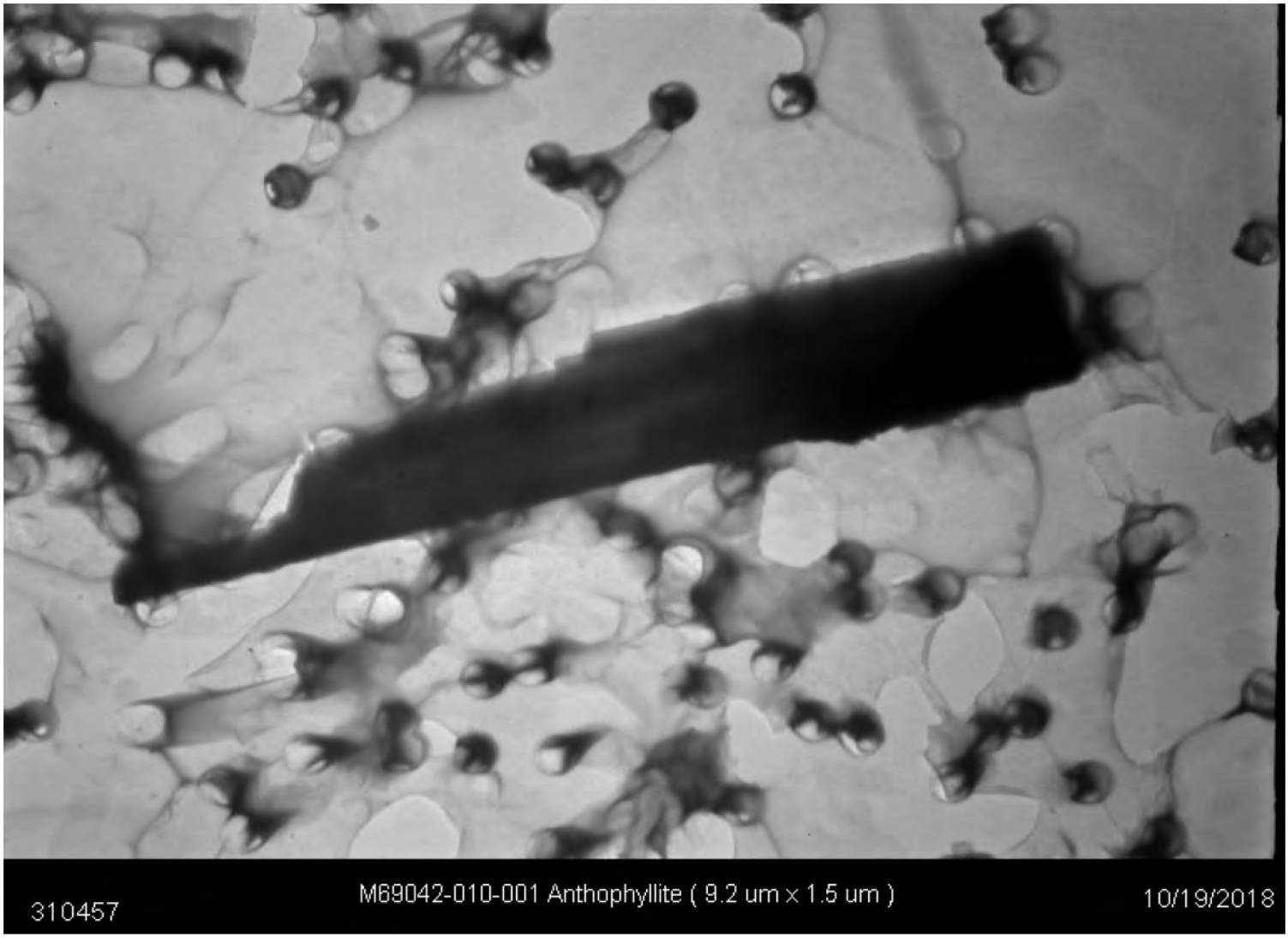
Detection Limit	6.24E+03	Str./g
Analytical Sensitivity	6.24E+03	Str./g

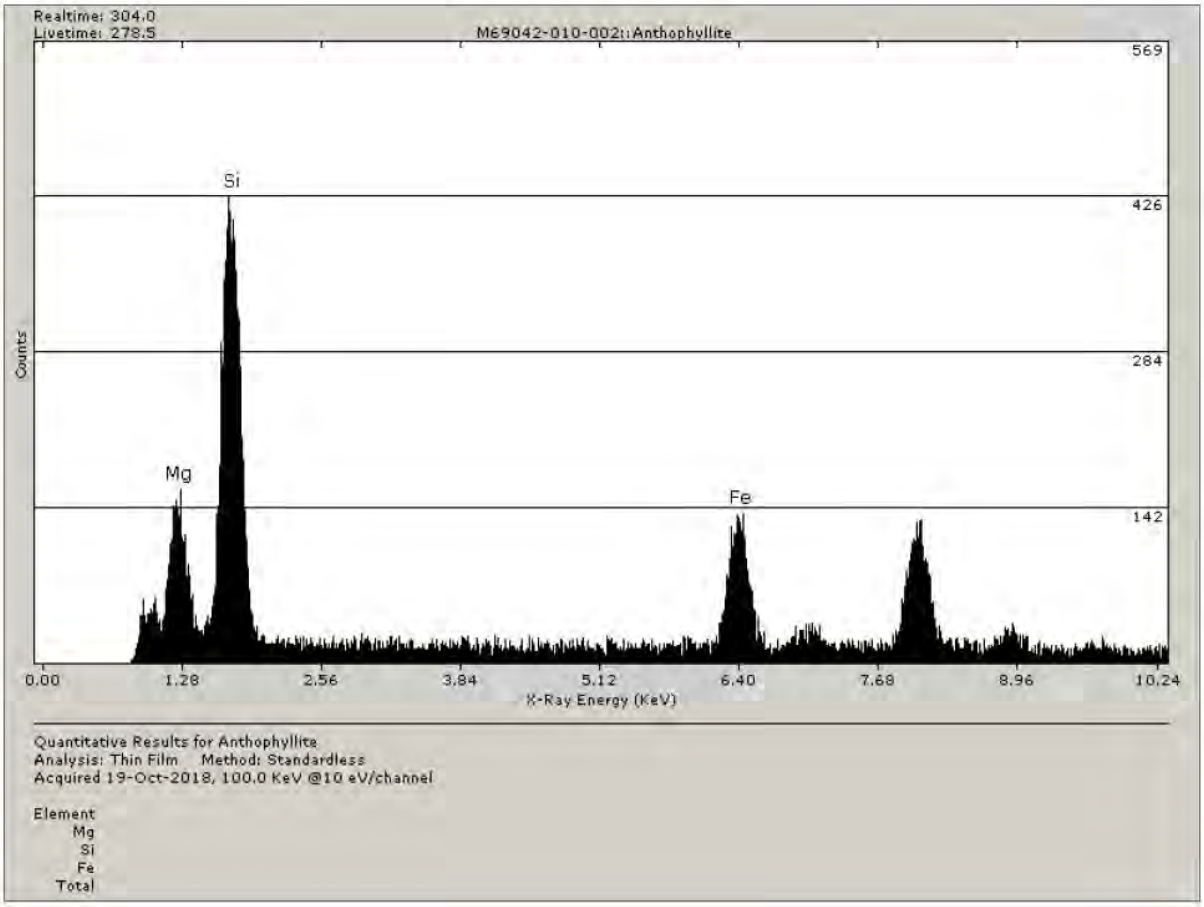

Realtime: 302.9
Livetime: 252.4
M69042-010-001::Anthophyllite
1087
815
543
271
Counts
Si
Mg
Fe
0.00
1.28
2.56
3.84
5.12
6.40
7.68
8.96
10.24
X-Ray Energy (KeV)
Quantitative Results for Anthophyllite
Analysis: Thin Film Method: Standardless
Acquired 19-Oct-2018, 100.0 KeV @10 eV/channel
Element
Mg
Si
Fe
Total

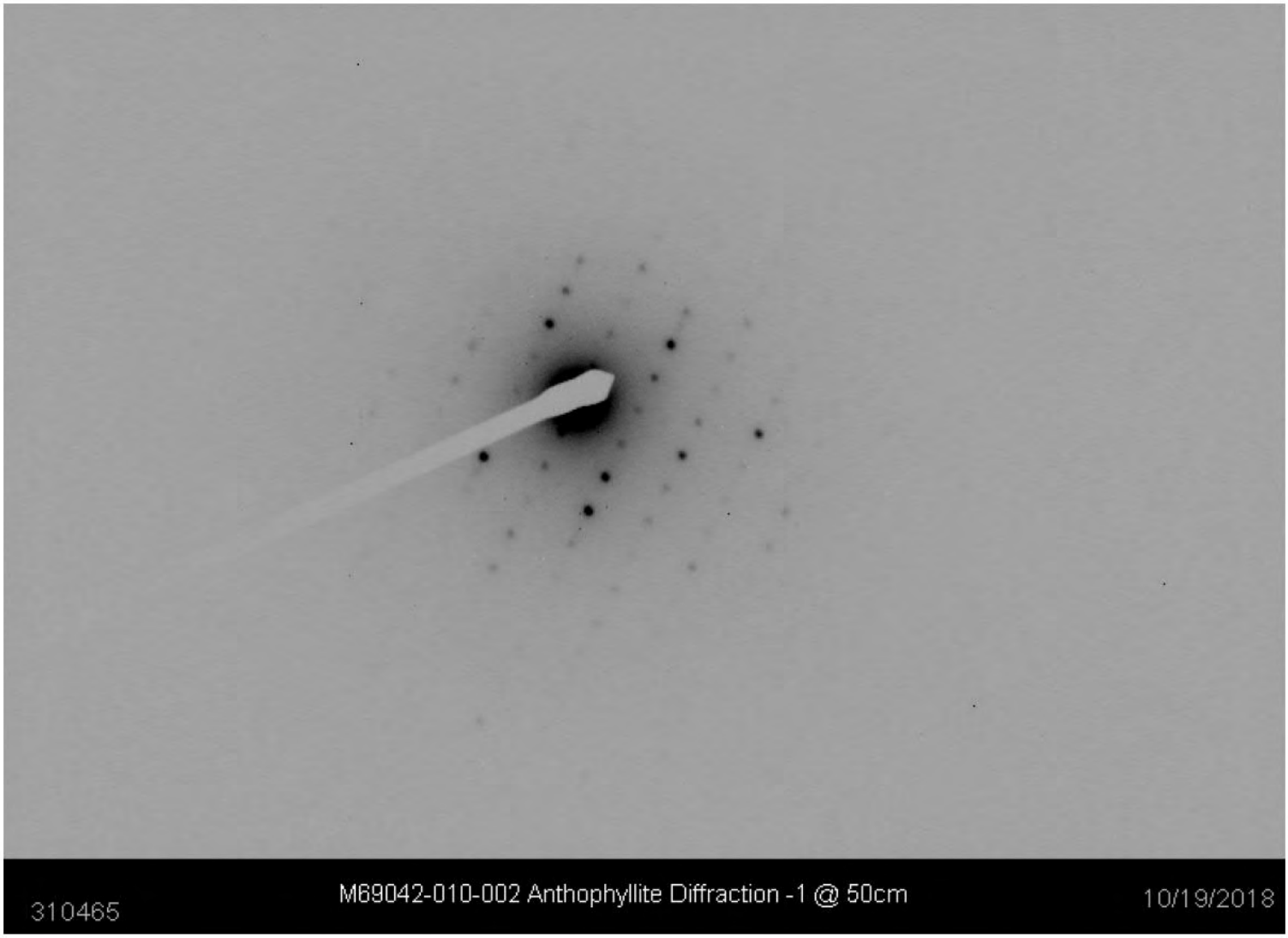

310450
M69042-010-001 Anthophyllite Diffraction - 1 @ 50cm
10/19/2018

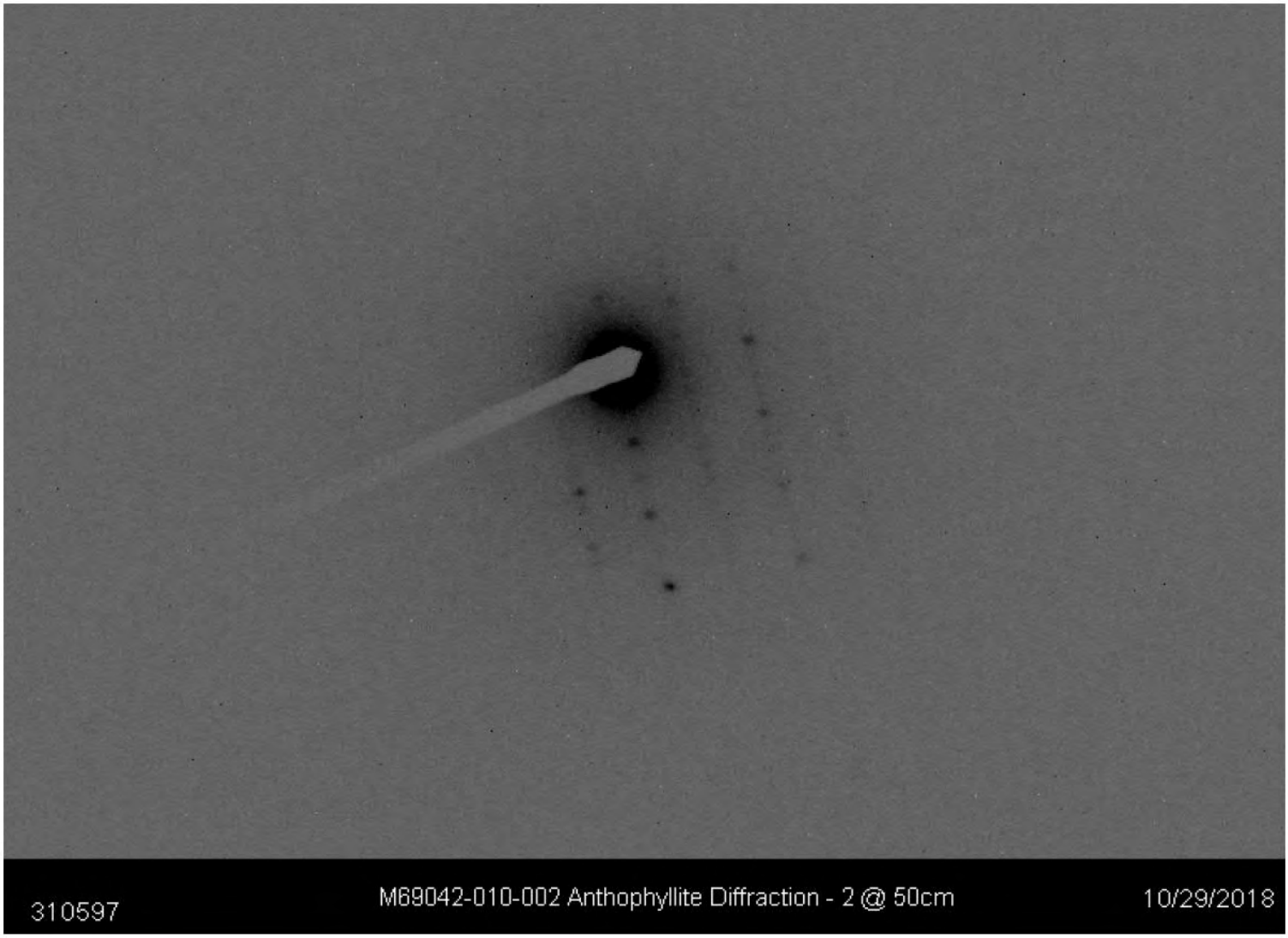


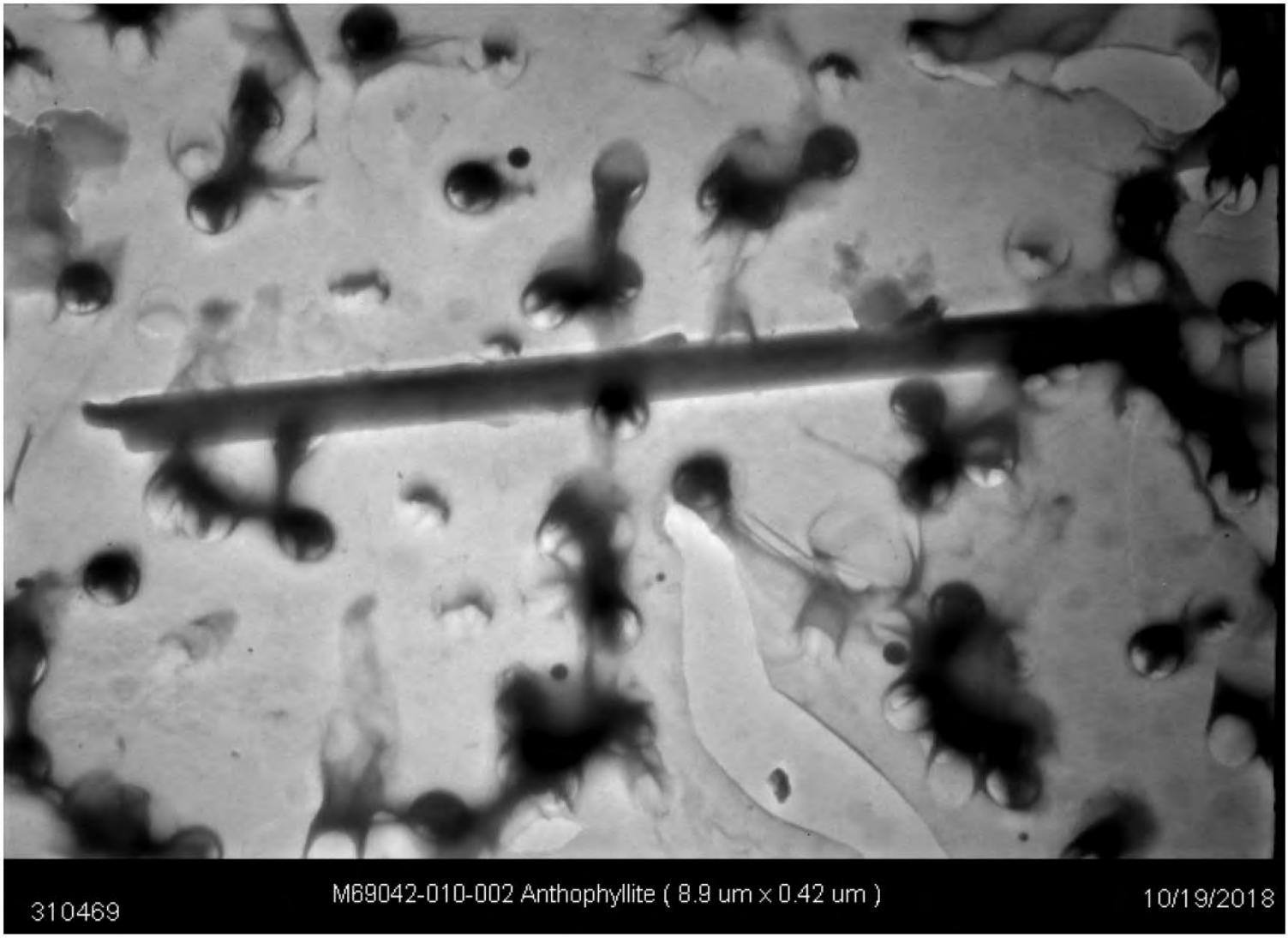
2 4819 M69042-010-001 Anthophyllite Diffraction - 2 @ 50cm 10/29/2018


310457
M69042-010-001 Anthophyllite (9.2 um x 1.5 um)
10/19/2018


Realtime: 304.0
Livetime: 278.5
M69042-010-002::Anthophyllite
569
426
284
142
Counts
Si
Mg
Fe
0.00
1.28
2.56
3.84
5.12
6.40
7.68
8.96
10.24
X-Ray Energy (KeV)
Quantitative Results for Anthophyllite
Analysis: Thin Film Method: Standardless
Acquired 19-Oct-2018, 100.0 KeV @10 eV/channel
Element
Mg
Si
Fe
Total

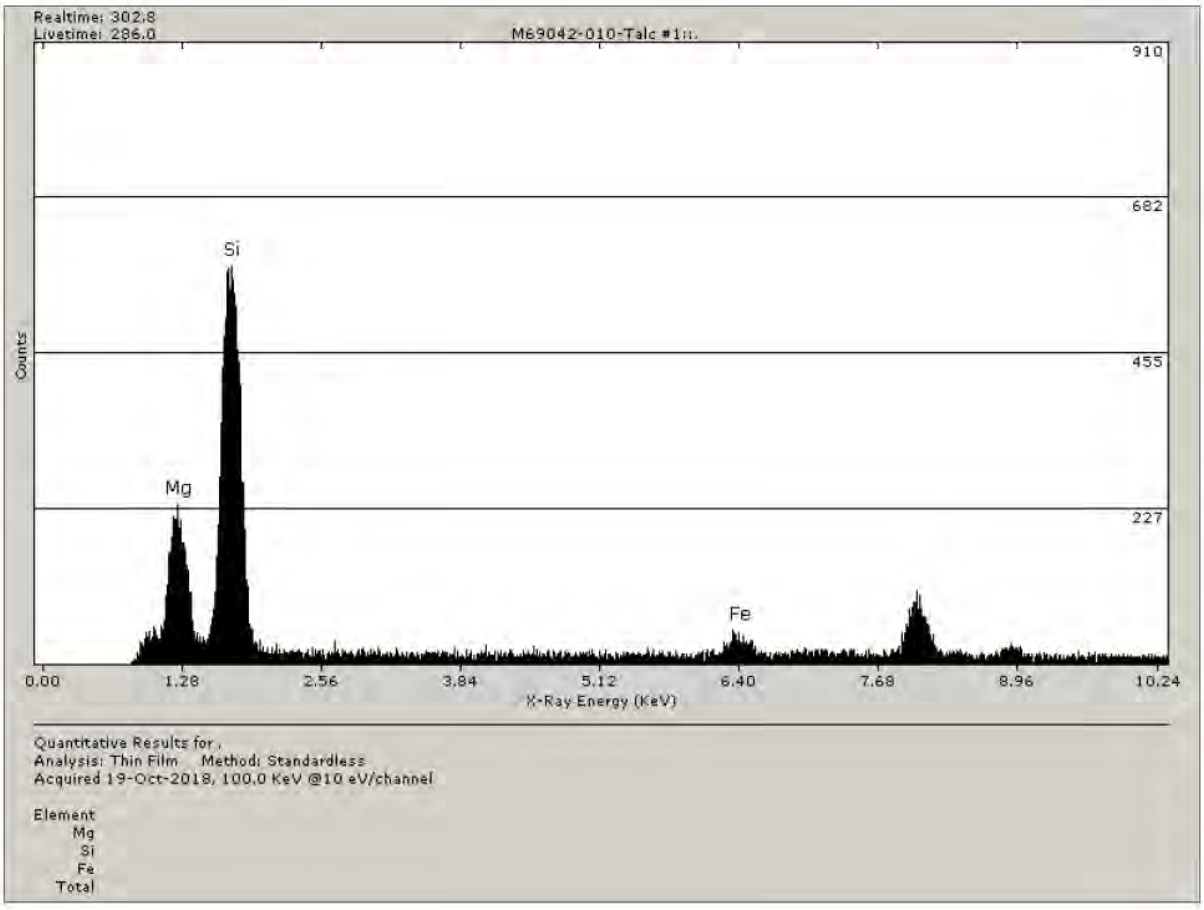

310465
M69042-010-002 Anthophyllite Diffraction -1 @ 50cm
10/19/2018

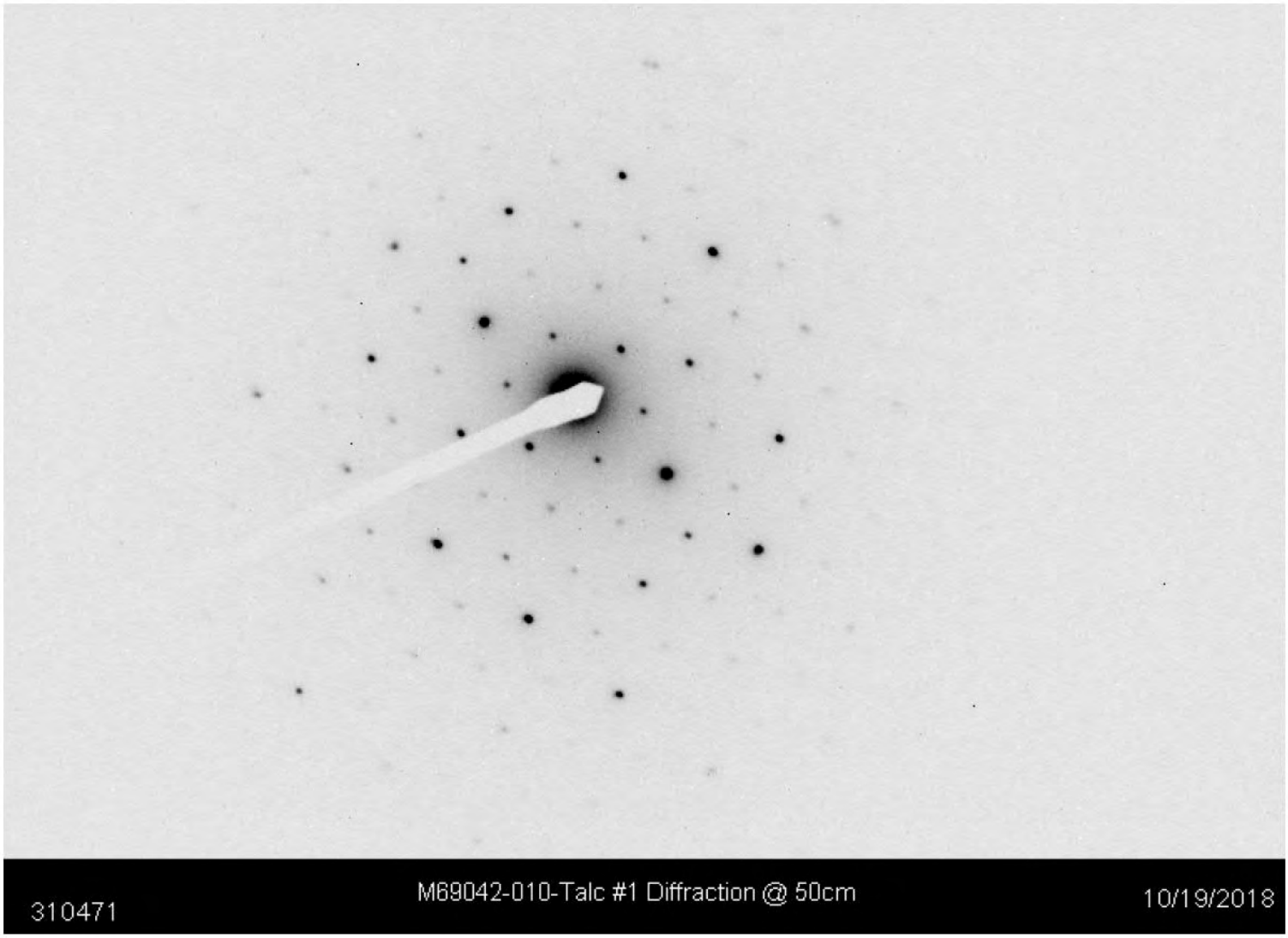

310597
M69042-010-002 Anthophyllite Diffraction - 2 @ 50cm
10/29/2018


310469
M69042-010-002 Anthophyllite (8.9 um x 0.42 um)
10/19/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69042-010		Grid Box #	8633	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	**G.O. Area**
Date of Analysis	10/19/2018 & 10/29/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02922			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	**Average**	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	**G.O.s Counted**	100
3	Screen Magnification	20 KX	**Area Examined mm²**			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	E2-E1	Fibrous Talc	12.3	1.8	6.8	Fibrous talc observed Trace throughout	


Realtime: 302.8
Livetime: 286.0
M69042-010-Talc #1::.
910
682
455
227
Counts
Si
Mg
Fe
0.00
1.28
2.56
3.84
5.12
6.40
7.68
8.96
10.24
X-Ray Energy (KeV)
Quantitative Results for ,
Analysis: Thin Film Method: Standardless
Acquired 19-Oct-2018, 100.0 KeV @10 eV/channel
Element
Mg
Si
Fe
Total


310471
M69042-010-Talc #1 Diffraction @ 50cm
10/19/2018


310472
M69042-010-Talc #1 (12.3 um x 1.8 um)
10/19/2018

Section 13

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M69680 - 015BL **Analyst** Paul Hess **Date** 12/11/2018

ClientName J3 Resources **ClientSpl** 20180061-31F

Location

Type_Mat Shower to Shower Talc

Gross Visual White debris on slide **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.633/1.619	1.641/1.628	
Sign^	positive	positive	
Extinction	oblique	parallel	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Actinolite/Tremolite	Anthophyllite	

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	0.3
Anthophyllite.....	< 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***

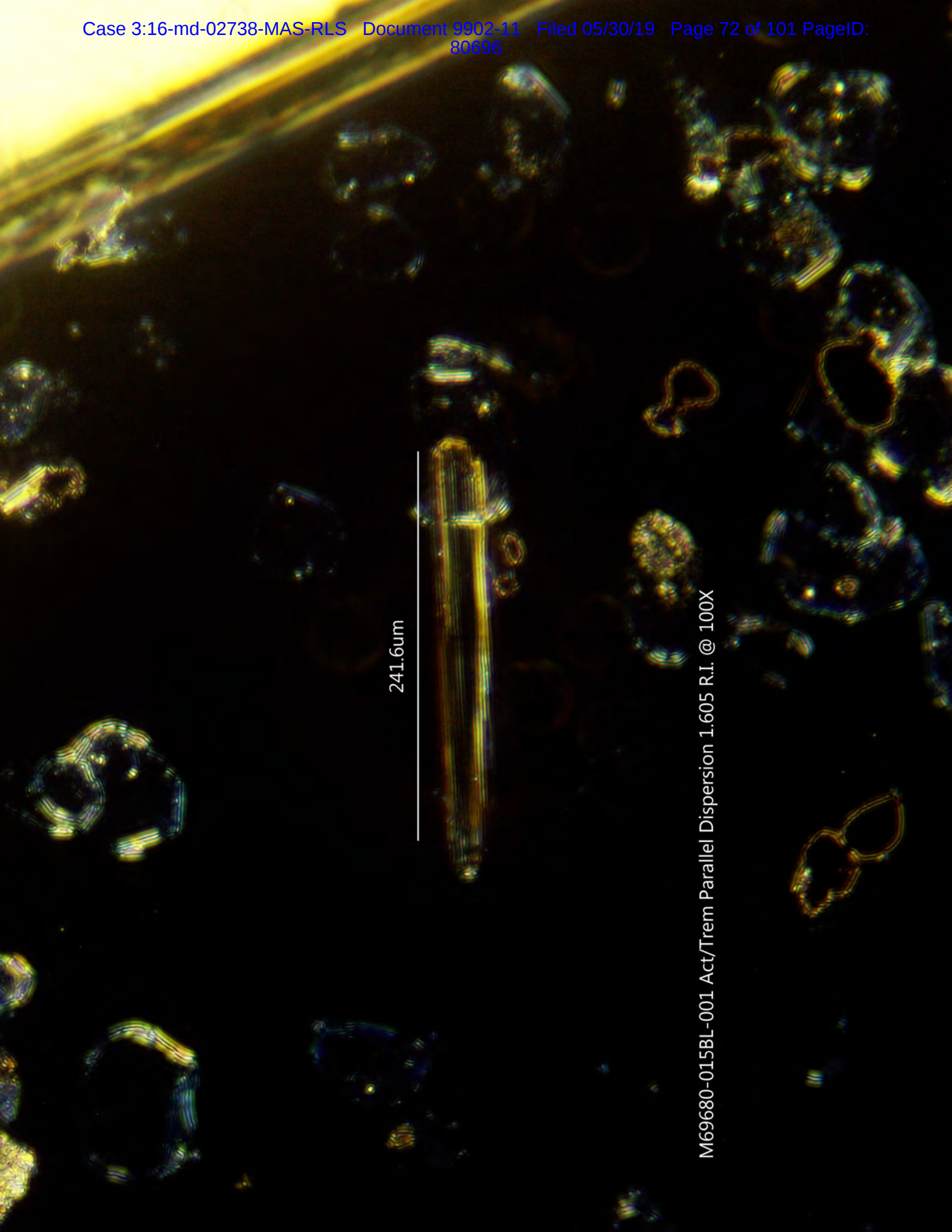
NON FIBROUS COMPONENTS

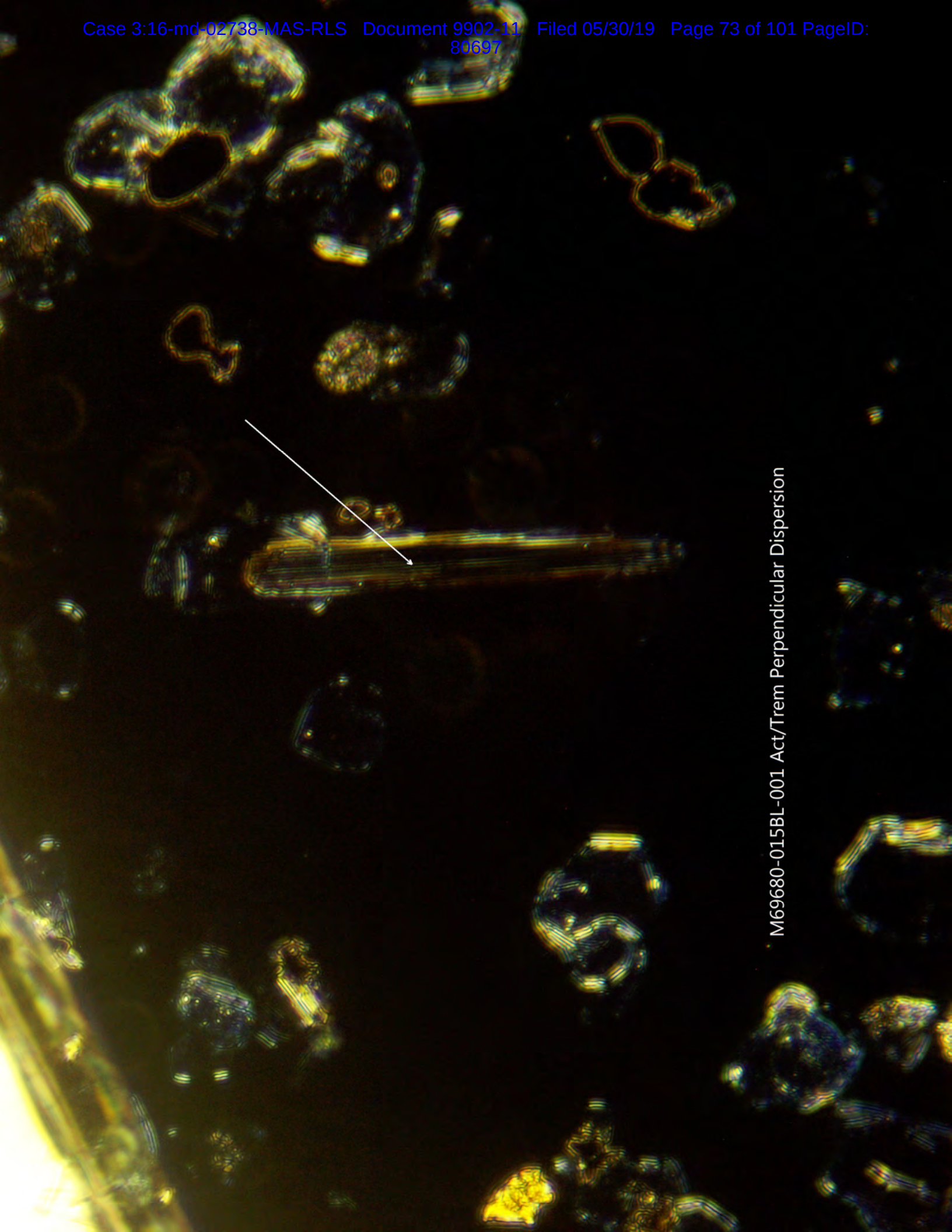
Opaques	X
Talc	X
Mineral grains	X

Binder Description

Comments Actinolite/Tremolite and Anthophyllite asbestos observed. *** Moderate amount of fibrous Talc observed. X = Materials detected.

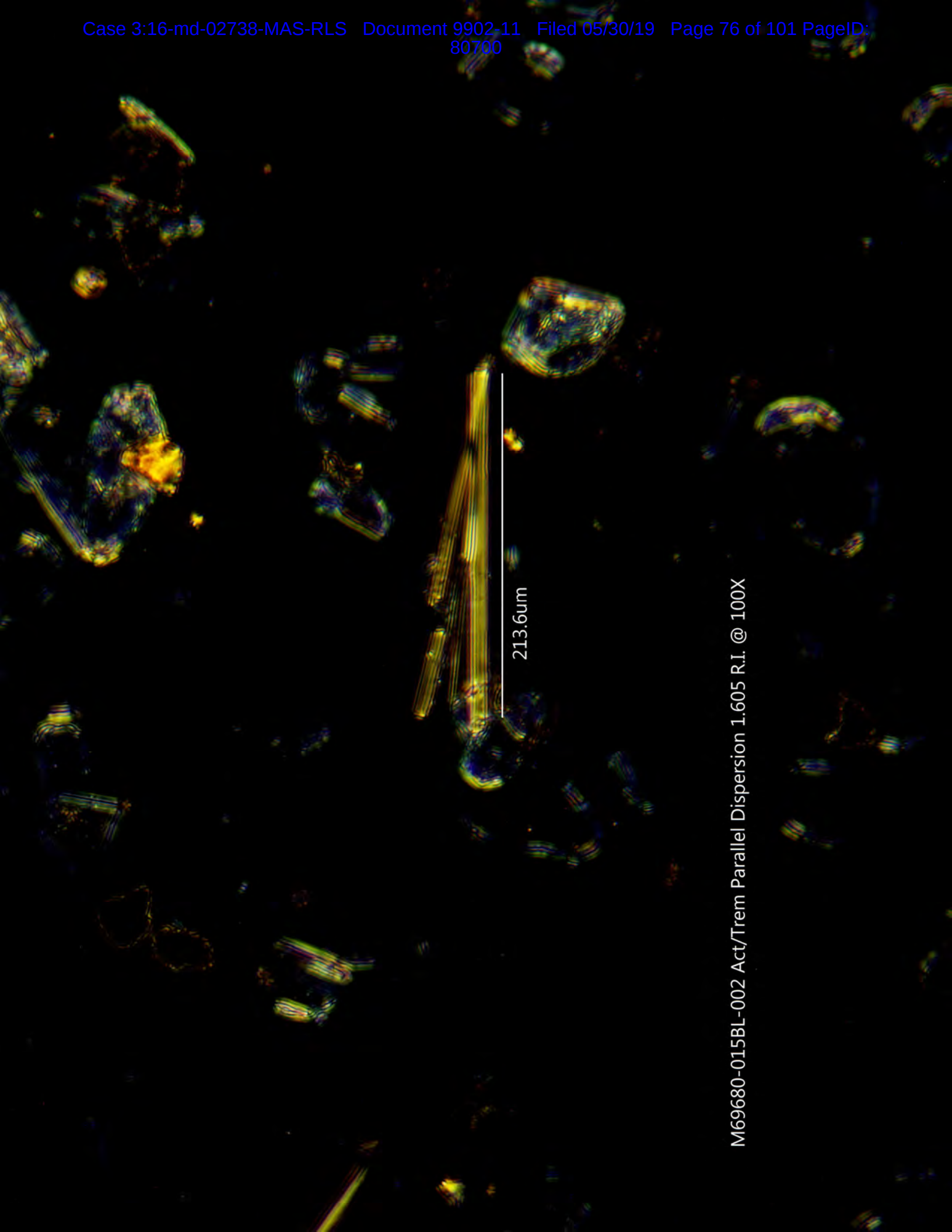
The method detection limit is 1% unless otherwise stated.

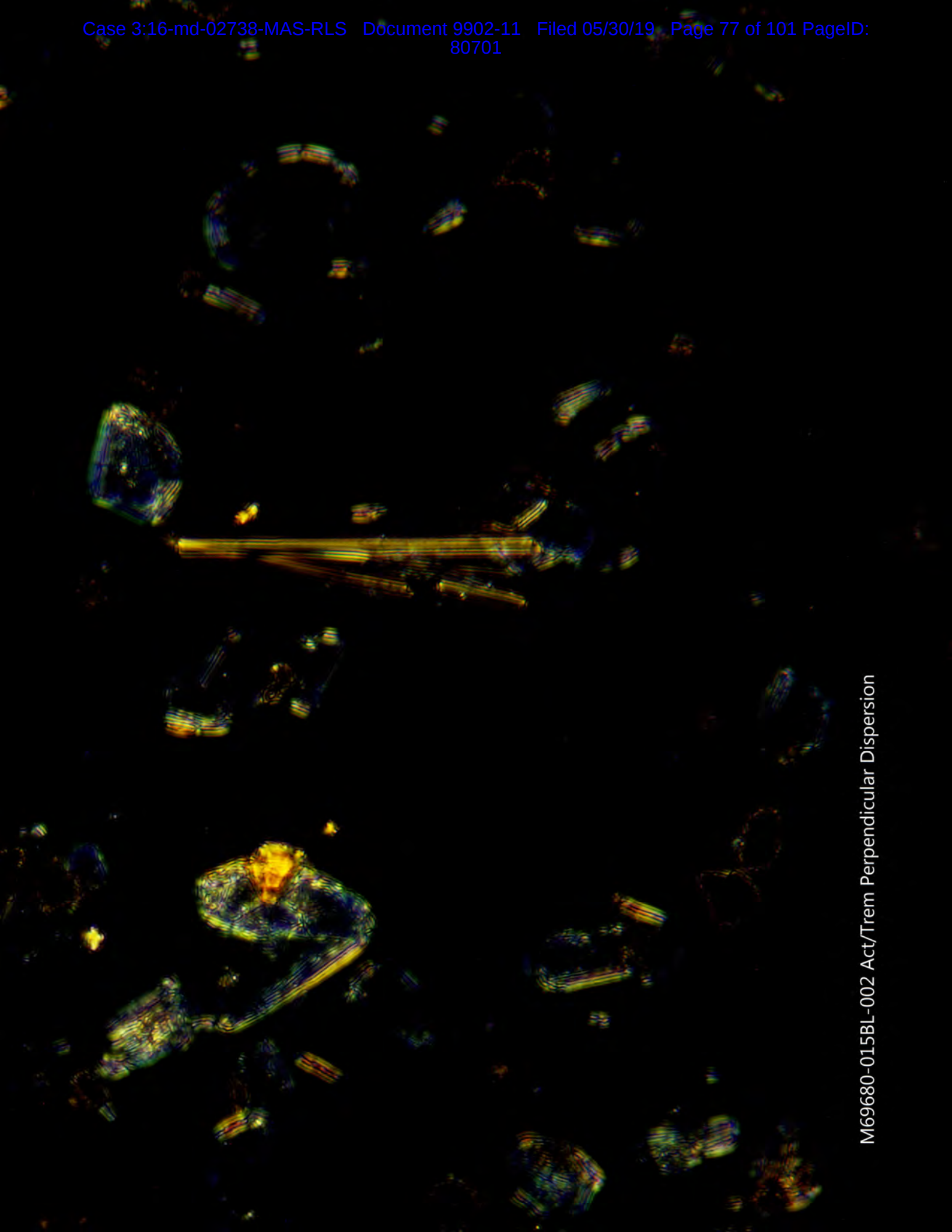

241.6um
M69680-015BL-001 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X

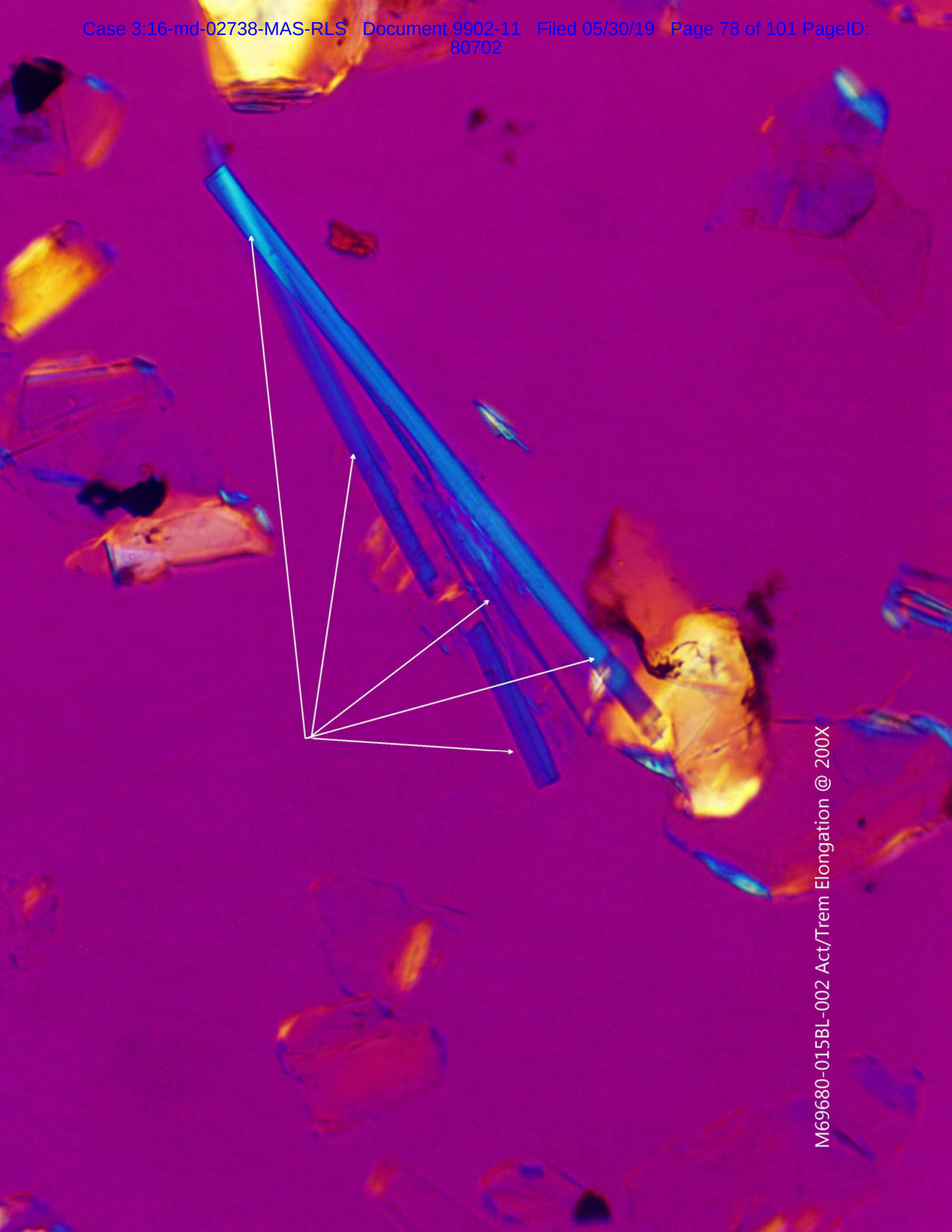

M69680-015BL-001 Act/Trem Perpendicular Dispersion


M69680-015BL-001 Act/Trem Elongation @ 200X

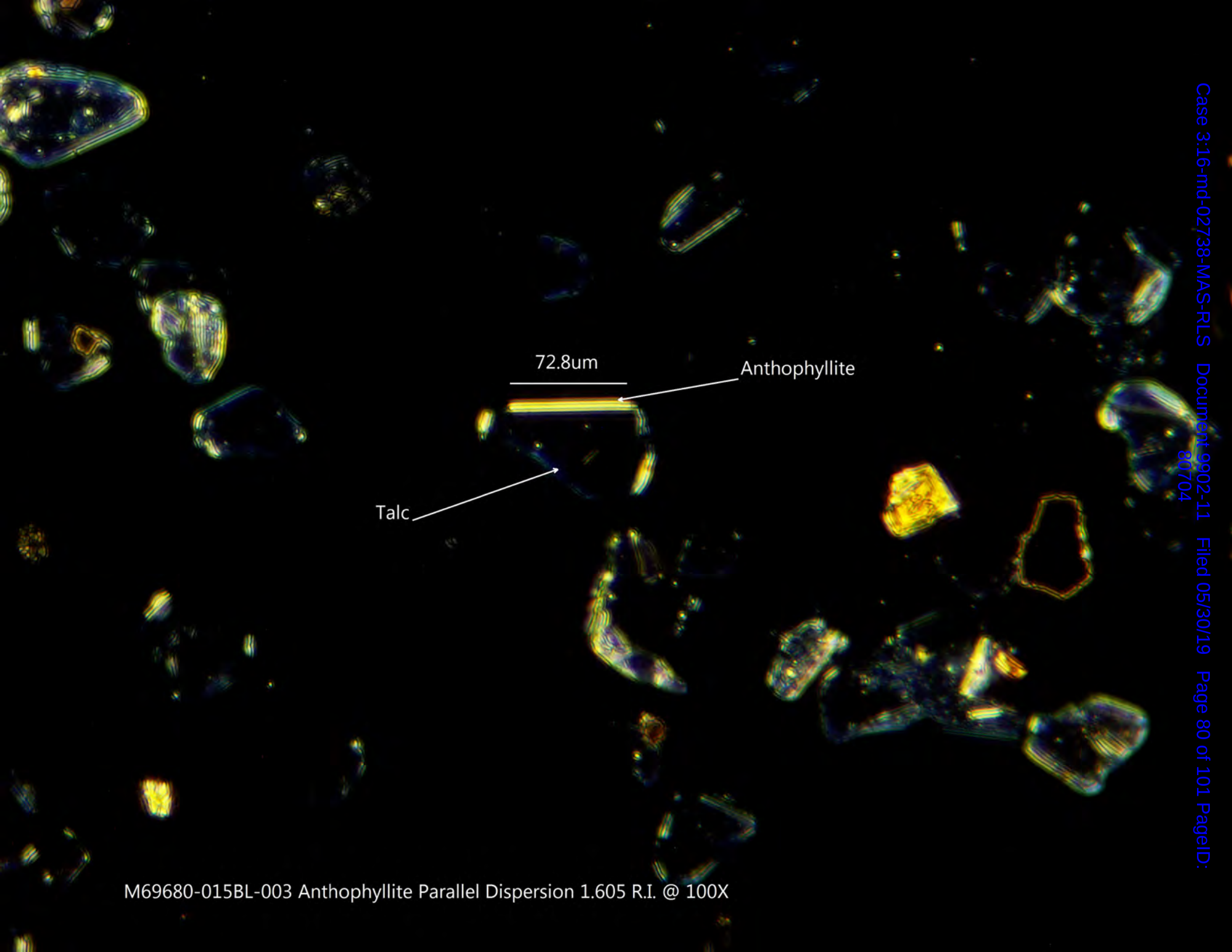

M69680-015BL-001 Act/Trem Crossed Polars


213.6um
M69680-015BL-002 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X

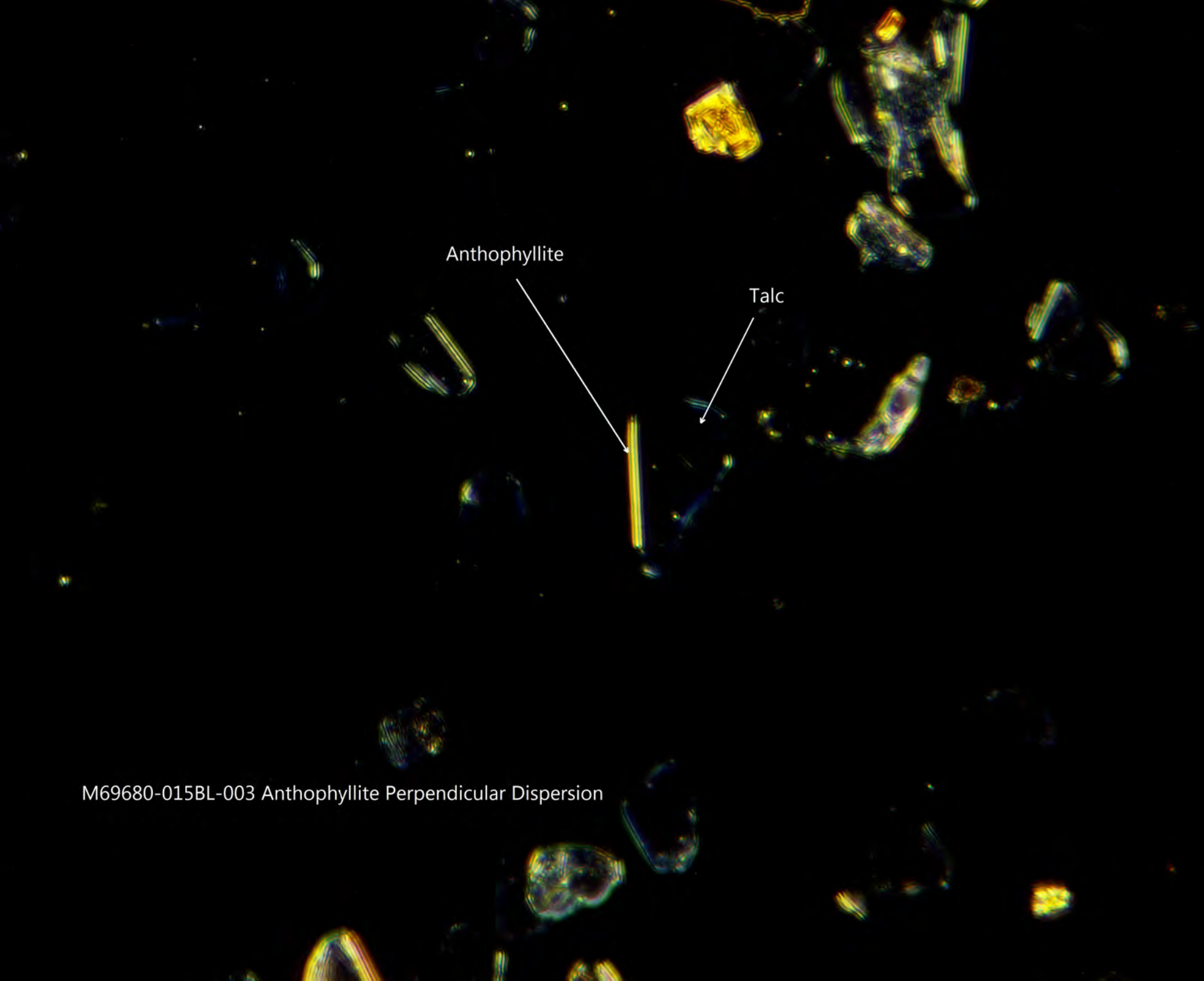

M69680-015BL-002 Act/Trem Perpendicular Dispersion


M69680-015BL-002 Act/Trem Elongation @ 200X

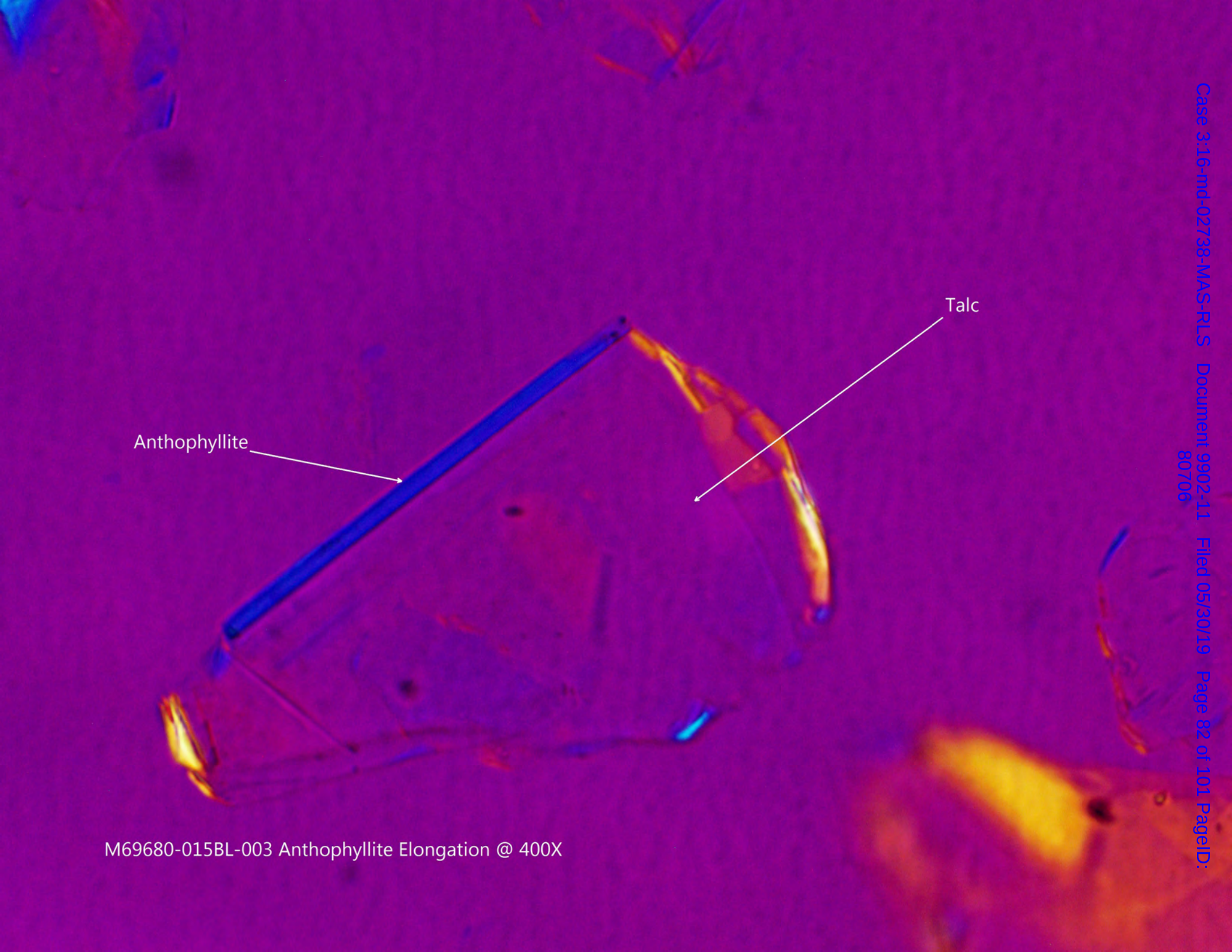

M69680-015BL-002 Act/Trem Crossed Polars



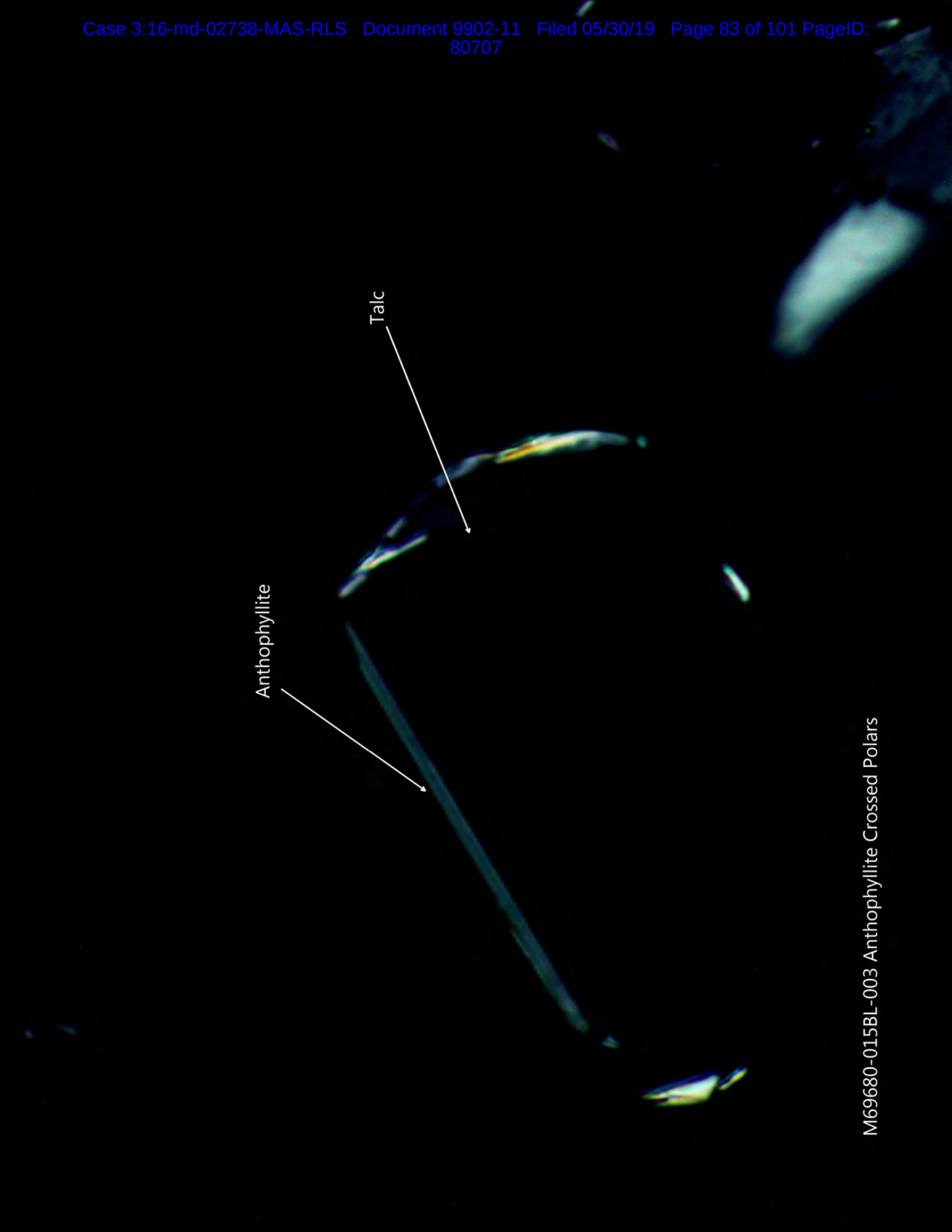
M69680-015BL-003 Anthophyllite Parallel Dispersion 1.605 R.I. @ 100X



M69680-015BL-003 Anthophyllite Perpendicular Dispersion



M69680-015BL-003 Anthophyllite Elongation @ 400X


Talc
Anthophyllite
M69680-015BL-003 Anthophyllite Crossed Polars

MAS

Verified Analysis Count Sheet

Date: 11-2-2018
Analyst: Anthony Keeton

SampleID: 20180061-31F
Grid Square ID: Grid-1,-2

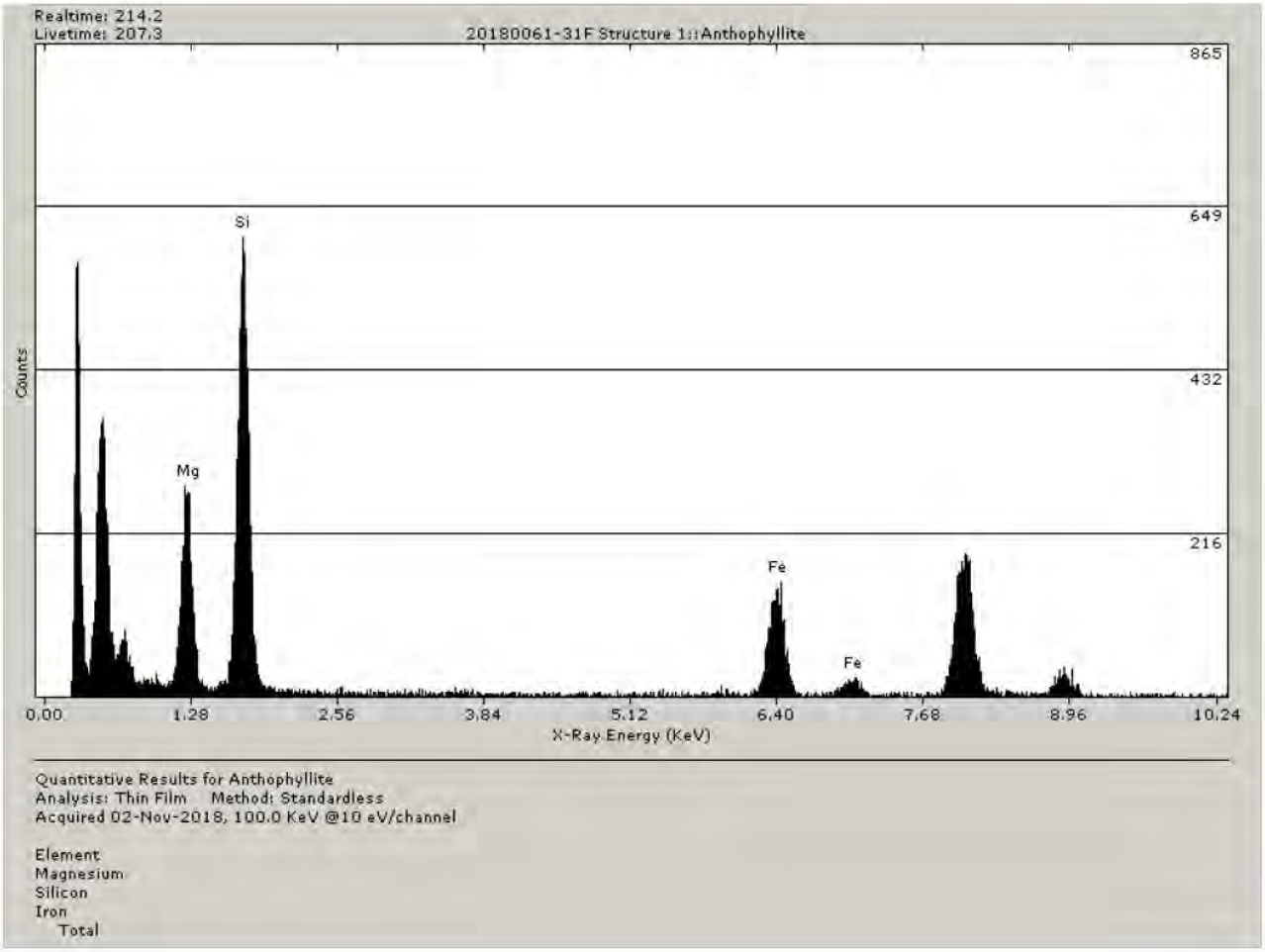
Structure No.	Length(µm)	Width(µm)	Type(F,B,C)	Sketch	ID	Verified(Y/N)
1	21.6	1.3	B	DIFF = 2-5058 Image = 2-5057	Anthony	Y

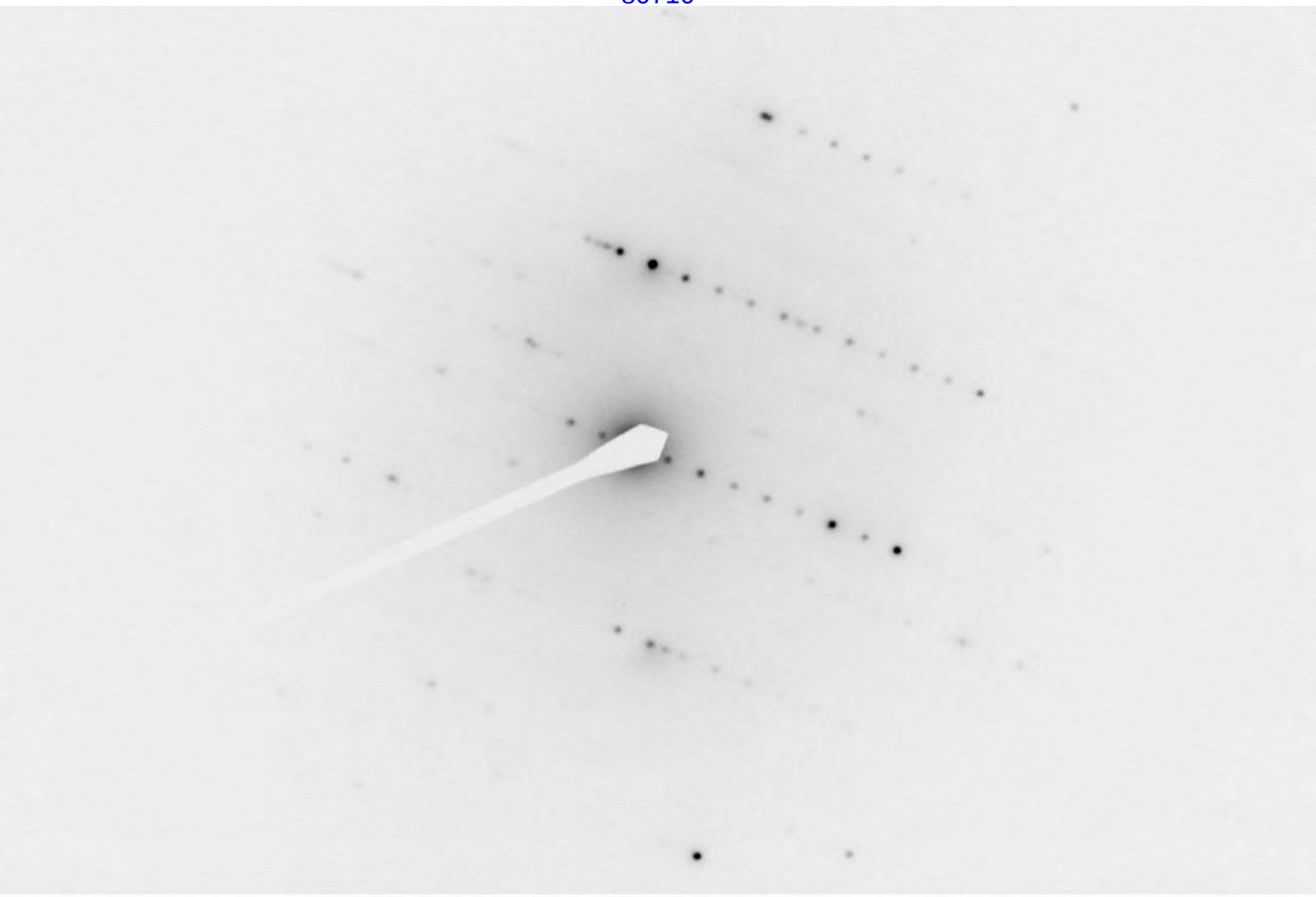
1-B2

Total No. of Structures: ____
True Positives: ____
False Positives: ____
False Negatives: ____

PG. 1 of 1

* Could Not locate structure in Grid 2-C1. Grid is partially torn.
* Could not locate structure in Grid 2-D5.
* Could not Correlate Grid opening to Benchsheet.


Realtime: 214.2
Livetime: 207.3
20180061-31F Structure 1::Anthophyllite
865
649
432
216
Counts
Si
Mg
Fe
Fe
0.00
1.28
2.56
3.84
5.12
6.40
7.68
8.96
10.24
X-Ray Energy (KeV)
Quantitative Results for Anthophyllite
Analysis: Thin Film Method: Standardless
Acquired 02-Nov-2018, 100.0 KeV @10 eV/channel
Element
Magnesium
Silicon
Iron
Total



2 5058 20180061-31F Structure 1 Anthophyllite Diffraction @ 50cm 11/2/2018


2 5057
20180061-31F Structure 1 Anthophyllite (21.6 um x 1.3 um)
11/2/2018

Determination of Asbestos in Talc by ATEM

ISO 22262-2:2014

Sample 20180061-31F

J3 Order #: JH1898969 **Analyst:** Lee Poye

Customer: Joseph Satterley, Esq. **Date:** 10-Jul-2018

Weight of Sample*:	0.0179 g	**Filter Size:**	25 mm
Percent of Original Sample*:	67%	**Filter Pore Size:**	0.2 µm
Suspension Volume:	1.5 mL	**Area of Analytical Filter:**	210 mm^2
Filtered Suspension Volume:	0.1 mL	**GO Size:**	0.0132 mm^2
		GO Area Analyzed:	1.056 mm^2

Results Summary

Asbestos Structure Number	Length (µm)	Width (µm)	Aspect Ratio	Asbestos Type
1	43	2	21.5	Anthophyllite
2	4.5	0.25	18	Anthophyllite
3	7	0.5	14	Anthophyllite
AVERAGE	**18.2**	**0.92**	**19.8**	

Total Asbestos Structures:	3
Anthophyllite Density:	3000 kg/m^3
Cross-section Shape Factor (Amphibole):	0.5
Asbestos Mass Fraction:	**0.0044%**
Asbestos Mass Fraction of Original Sample:	**0.0029%**

* Sample was previously gravimetrically reduced.

Determination of Asbestos in Talc by ATEM

LAB WORKSHEET

Customer: Joseph Satterley, Esq.
J3 Order #: JH1898969
Sample #: 20180061-31F

Analyst: Lee Poye
Date: 10-Jul-2018
Page: 1 of 3

Magnification Scan at 3,000X

Grid	G.O. #	Non-Asbestos	Asbestos Tally	L x W (µm)	TYPE	Images			Comments
						EDS	Morphology	SAED	
1	A1		NSD						
	A2		NSD						
	A3		NSD						
	A4		NSD						
	A5		NSD						
	A6		NSD						
	A7		NSD						
	A8		NSD						
	A9		NSD						
	A10		NSD						
	B1		NSD						
	B2		1	43 x 2.00	Anthophyllite	Yes	01	02	Zone Axis [1 0 1]
	B3		NSD						
	B4		NSD						
	B5		NSD						
	B6		NSD						
	B7		NSD						
	B8		NSD						
	B9		NSD						
	B10		NSD						
2	C1		2	4.5 x 0.25	Anthophyllite	Yes			
	C2		NSD						
	C3		NSD						
	C4		NSD						
	C5		NSD						
	C6		NSD						
	C7		NSD						
	C8		NSD						
	C9		NSD						
	C10		NSD						

Determination of Asbestos in Talc by ATEM

LAB WORKSHEET

Customer: Joseph Satterley, Esq.
J3 Order #: JH1898969
Sample #: 20180061-31F

Analyst: Lee Poye
Date: 10-Jul-2018
Page: 2 of 3

Magnification Scan at 3,000X									
Grid	G.O. #	Non-Asbestos	Asbestos Tally	L x W (µm)	TYPE	Images			Comments
						EDS	Morphology	SAED	
2	D1		NSD						
	D2		NSD						
	D3		NSD						
	D4		NSD						
	D5		3	7 x 0.50	Anthophyllite	Yes			
	D6		NSD						
	D7		NSD						
	D8		NSD						
	D9		NSD						
	D10		NSD						
3	D1		NSD						
	D2		NSD						
	D3		NSD						
	D4		NSD						
	D5		NSD						
	D6		NSD						
	D7		NSD						
	D8		NSD						
	D9		NSD						
	D10		NSD						
	I1		NSD						
	I2		NSD						
	I3		NSD						
	I4		NSD						
	I5		NSD						
	I6		NSD						
	I7		NSD						
	I8		NSD						
	I9		NSD						
	I10		NSD						

Determination of Asbestos in Talc by ATEM

LAB WORKSHEET

Customer: Joseph Satterley, Esq.
J3 Order #: JH1898969
Sample #: 20180061-31F

Analyst: Lee Poye
Date: 10-Jul-2018
Page: 3 of 3

Magnification Scan at 3,000X

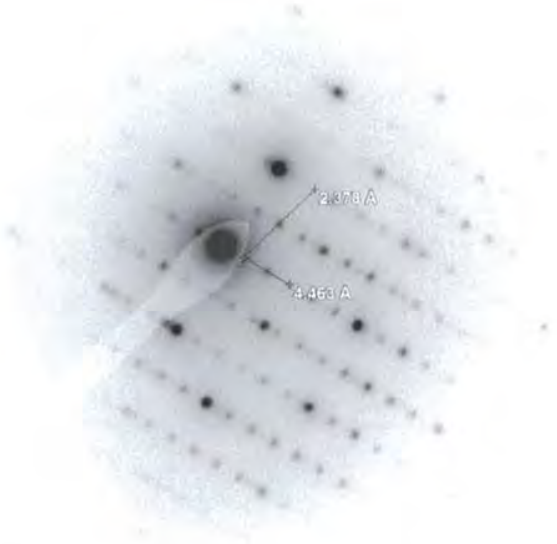
Grid	G.O. #	Non-Asbestos	Asbestos Tally	L x W (µm)	TYPE	Images			Comments
						EDS	Morphology	SAED	
4	B1		NSD						
	B2		NSD						
	B3		NSD						
	B4		NSD						
	B5	✓	NA	10 x 1.00	Talc	Yes			Fiber
	B6		NSD						
	B7		NSD						
	B8		NSD						
	B9		NSD						
	B10		NSD						
	C1		NSD						
	C2		NSD						
	C3		NSD						
	C4		NSD						
	C5		NSD						
	C6		NSD						
	C7		NSD						
	C8		NSD						
	C9		NSD						
	C10		NSD						

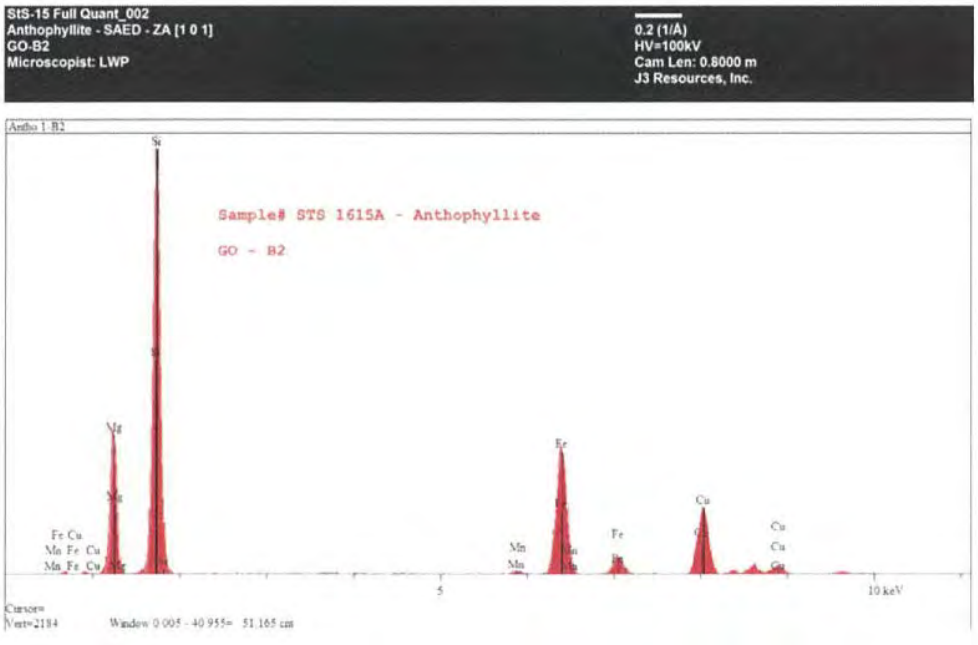
Sample 20180061-31F
Structure 1 - Morphology

StS-15 Full Quant_001
Anthophyllite
GO-B2
Microscopist: LWP

2 µm
HV=100kV
Direct Mag: 4000 x
J3 Resources, Inc.

Sample 20180061-31F
Structure 1 – Diffraction Pattern and EDS

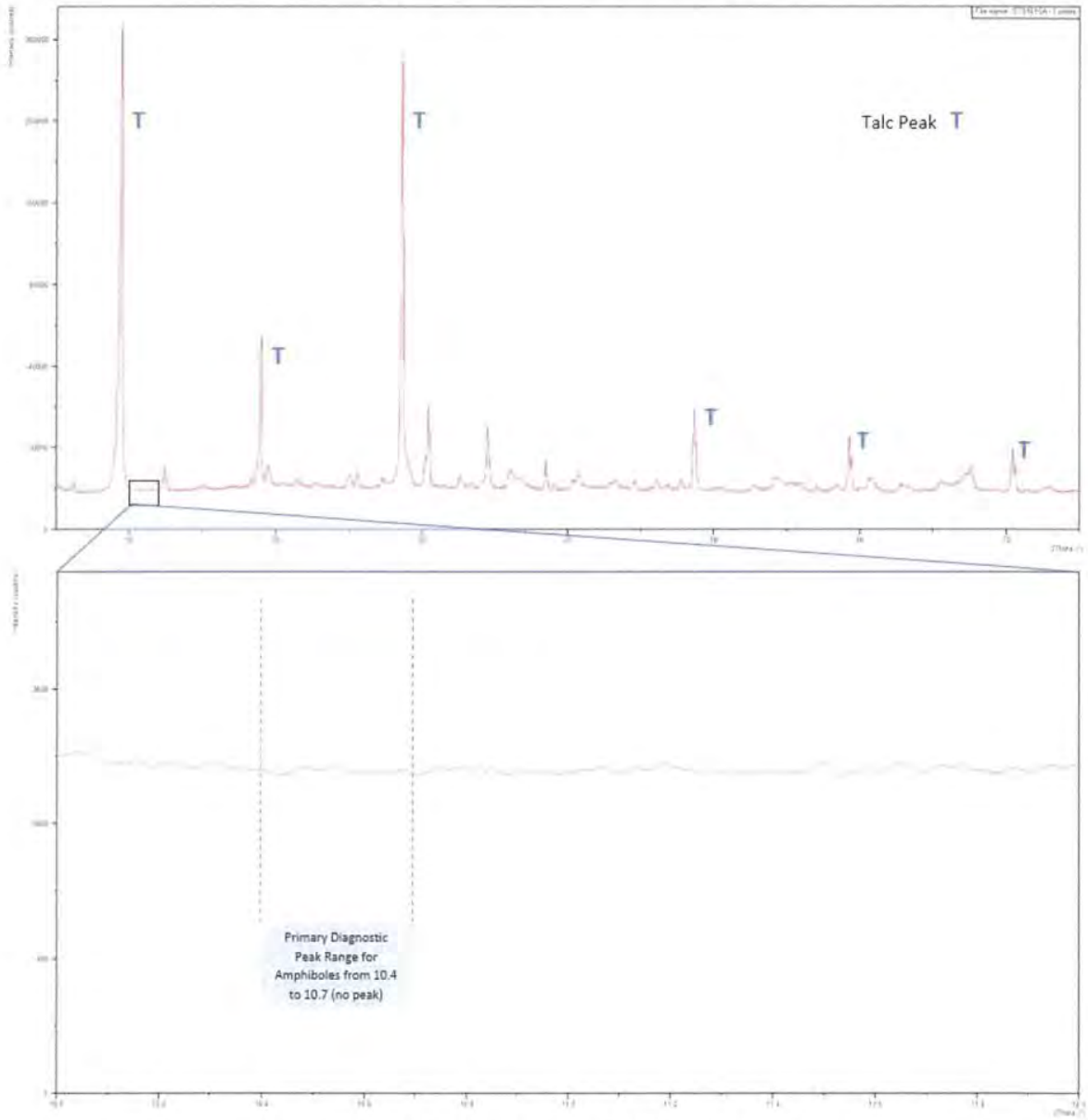




Determination of Asbestos in Talc by XRD

ISO 22262-3:2016

Sample 20180061-31F



No Amphibole Peak Present

Section 14

MAS, LLC
PLM ANALYSIS

Proj#-Spl# M69680 - 016BL **Analyst** Paul Hess **Date** 12/11/2018

ClientName J3 Resources **ClientSpl** 20180061-31G

Location

Type_Mat Shower to Shower Talc

Gross Visual Glittering debris on slide **% of Sample** 100

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.633/1.619		
Sign^	positive		
Extinction	oblique		
Birefringence	medium		
Melt	no		
Fiber Name	Actinolite/Tremolite		

ASBESTOS MINERALS	**EST. VOL. %**
Chrysotile.....	
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	0.7
Anthophyllite.....	

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55	***

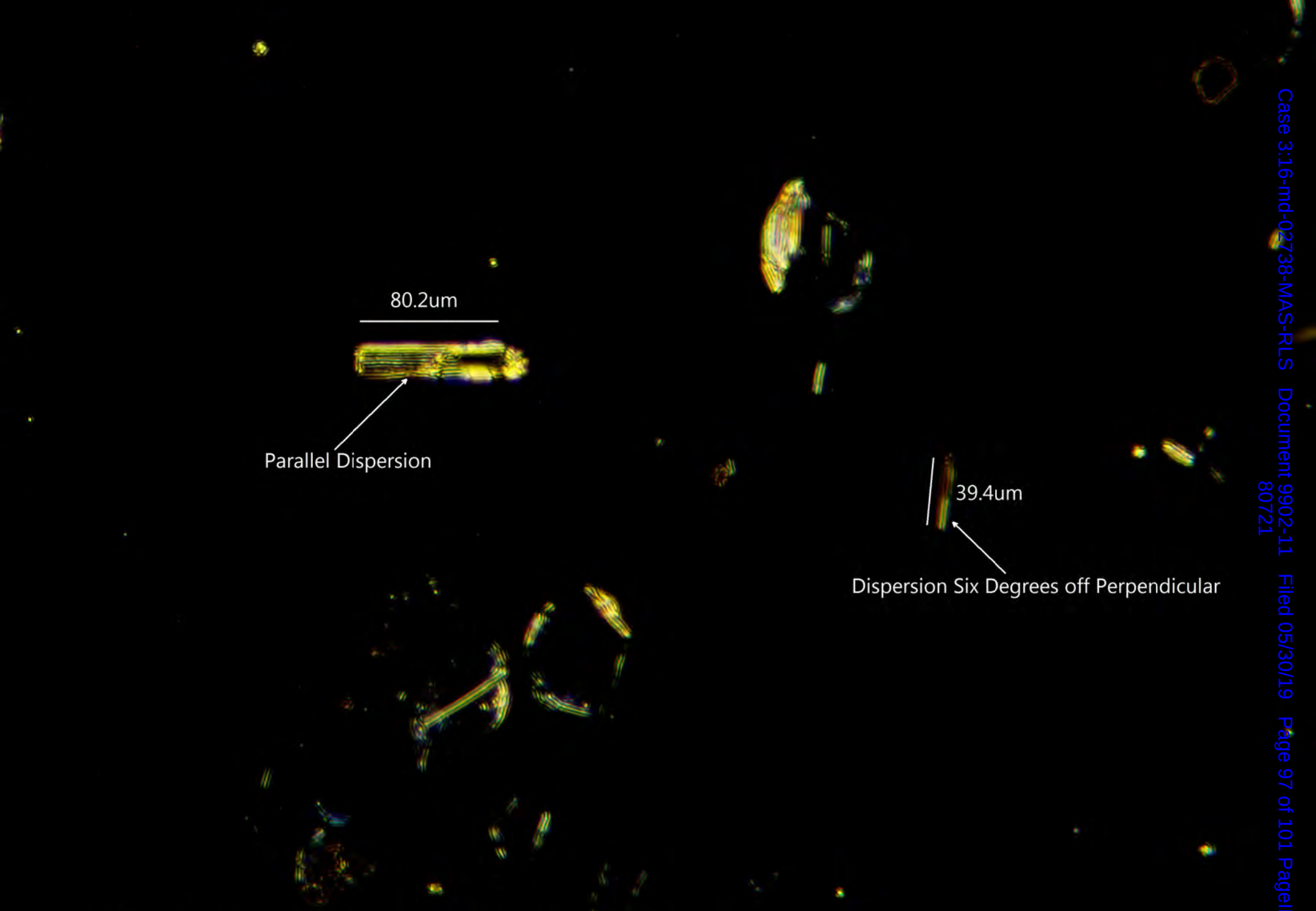
NON FIBROUS COMPONENTS

Opaques	X
Talc	X
Mineral grains	X

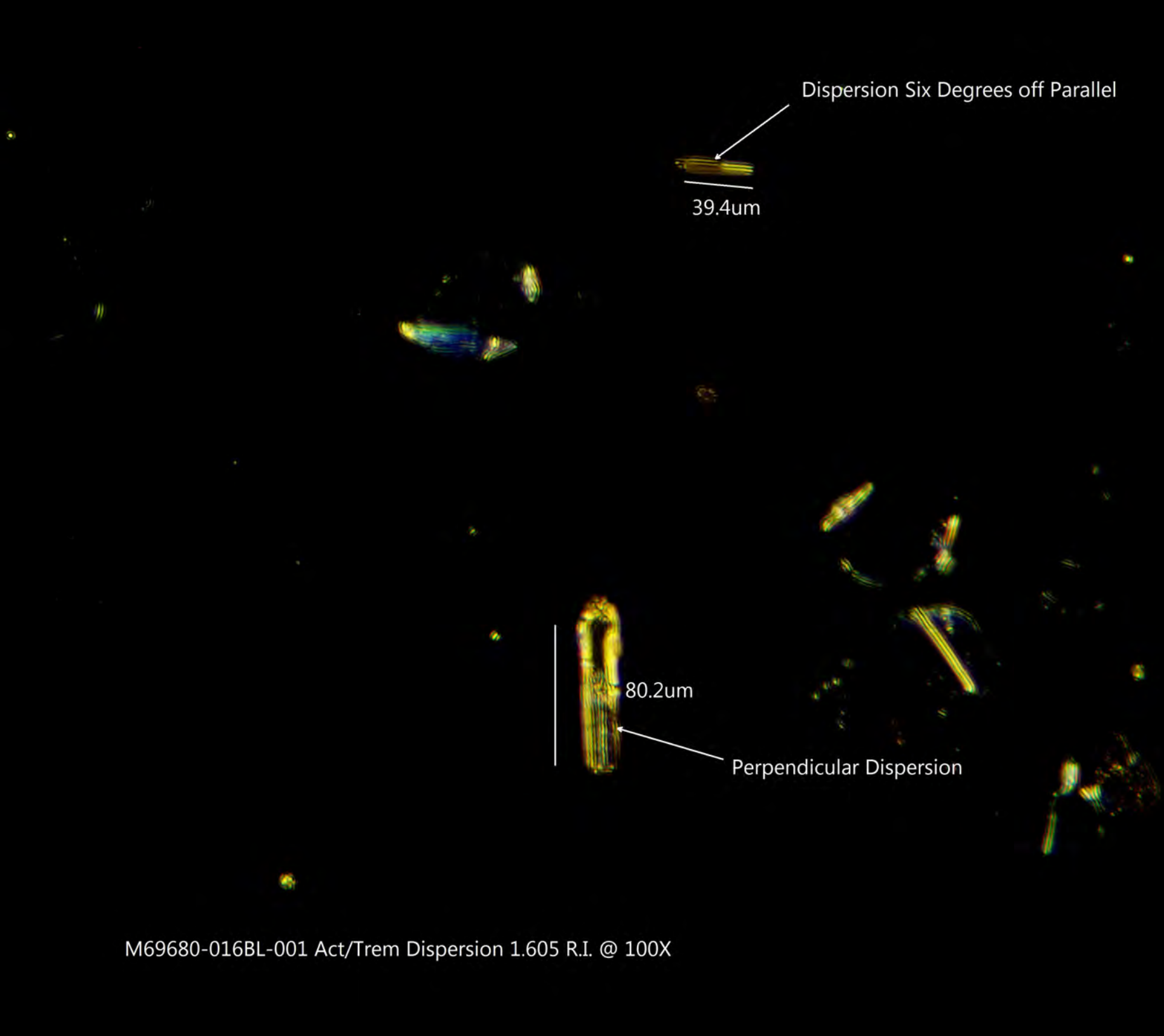
Binder Description

Comments Actinolite/Tremolite asbestos observed. *** Moderate amount of fibrous Talc observed. X = Materials detected.

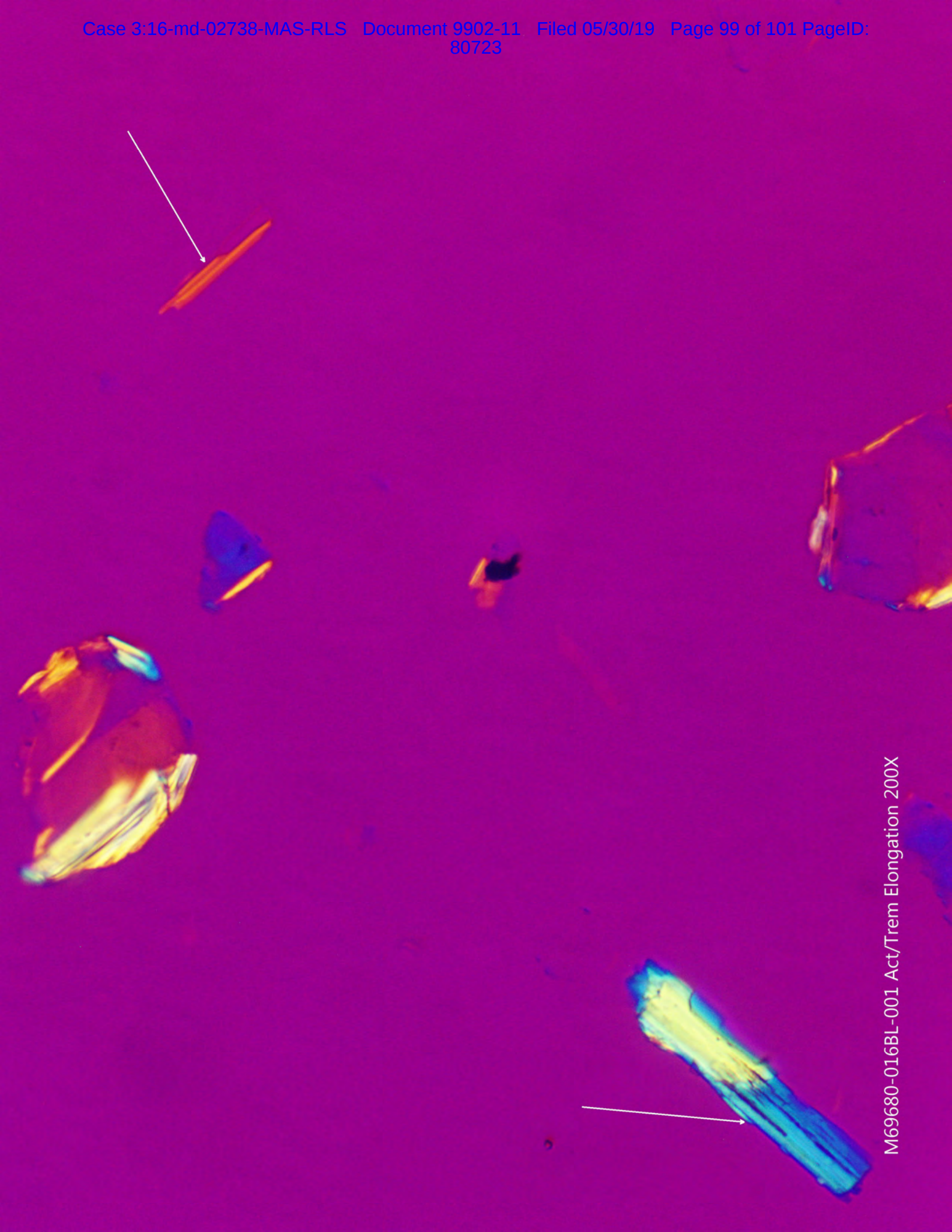
The method detection limit is 1% unless otherwise stated.



M69680-016BL-001 Act/Trem Dispersion 1.605 R.I. @ 100X



M69680-016BL-001 Act/Trem Dispersion 1.605 R.I. @ 100X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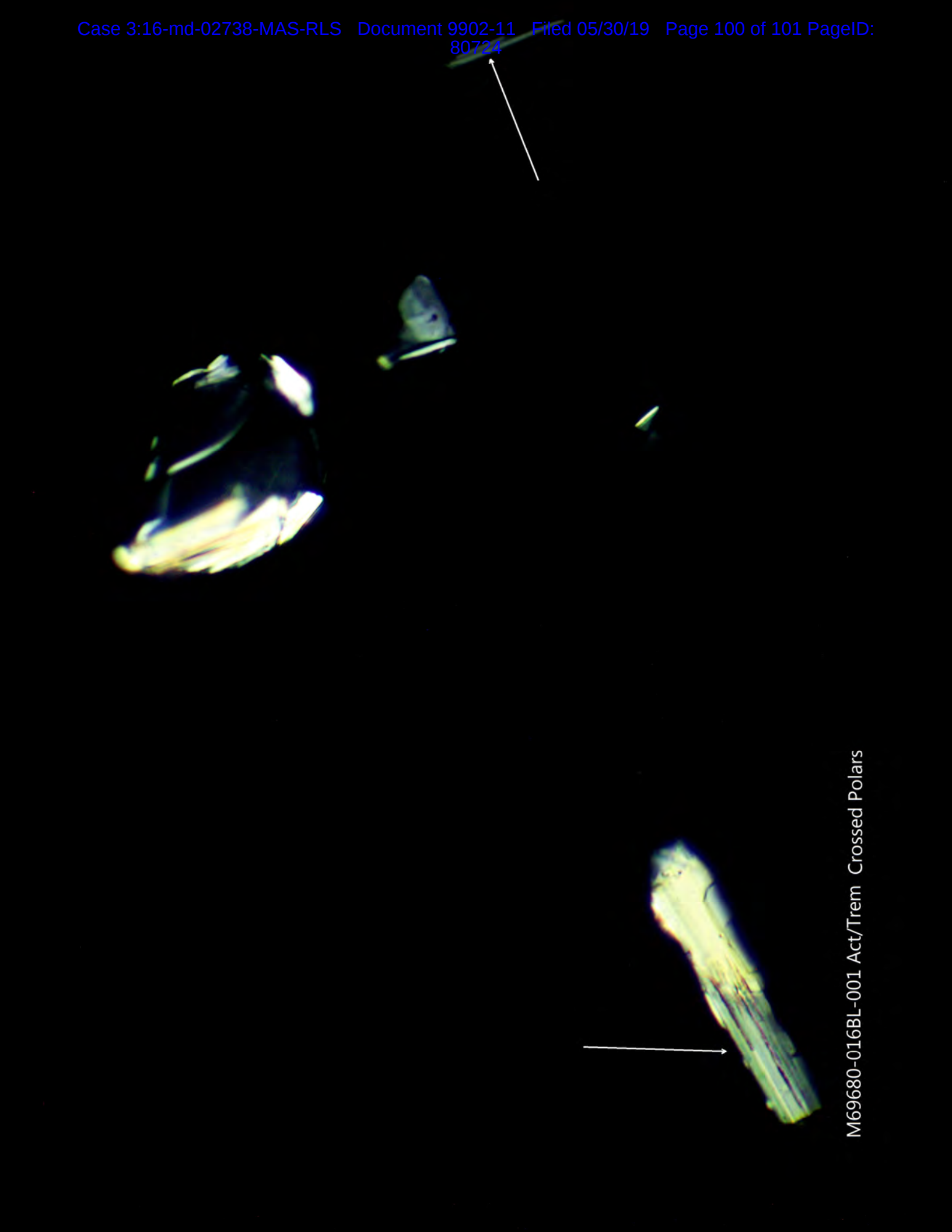
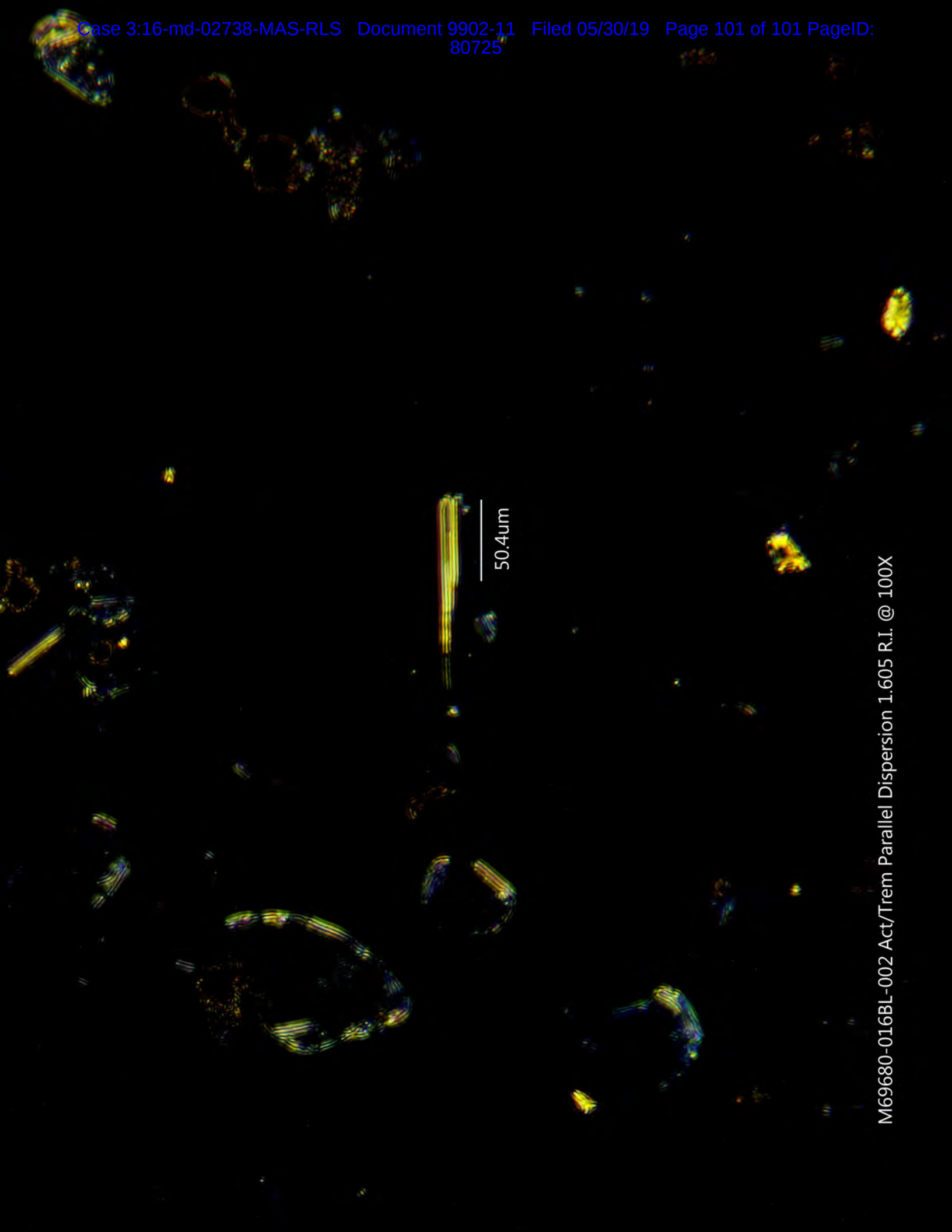

M69680-016BL-001 Act/Trem Crossed Polars


50.4um
M69680-016BL-002 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X